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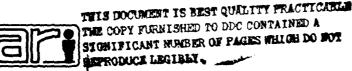
USE OF COMPUTER STATISTICAL PACKAGES TO GENERATE
QUALITY CONTROL REPORTS ON TRAINING

ARI Field Unit at Fort Knox, Kentucky

JANUARY 1980

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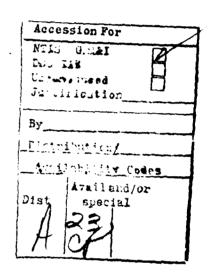
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## USE OF COMPUTER STATISTICAL PACKAGES TO GENERATE QUALITY CONTROL REPORTS ON TRAINING

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Submitted by: Donald F. Haggard, Chief FORT KNOX FIELD UNIT

January 1980



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Army Project Number 20163731A770

#### Foreword

The Fort Knox Field Unit of the US Army Research Institute for the Behavioral and Social Sciences (ARI) initiated this project as part of a request for Technical Advisory Service to the US Army Armor Center at Fort Knox. The Armor Center requested a system for monitoring soldier attitudes toward training. Because of the time required and later requests to generalize the system to training data, the project was included in the FY 78 work program under RDTE project 20163731A770, Task D: Determination of Methods for Increasing the Combat Proficiency of Individual Armor Crewmen.

JOSEPH ZEIDNER



#### Brief

#### Requirement:

Training managers require timely and readily understandable information about many aspects of training. To this end, the US Army Armor Center at Fort Knox requested Technical Advisory Service from the Fort Knox Field Unit of ARI to develop a system for monitoring trainee attitudes. A specific attitude monitoring system resulted from this effort and requests to generalize it to training scores led to development of instructions describing the procedures necessary for applying the system to analysis of training scores.

#### Procedure:

A system of four computer programs was developed, using the Statistical Package for the Social Sciences (SPSS), to analyze attitude data collected using a questionnaire developed by ARI. The approach could easily be adapted to other computer packages for statistical analysis to yield graphic output of results. The output reports attitude data on eight scales representing attitudes toward the Army and provides graphic output of data on each scale. The graphic output yields a point for each Company sampled, on a chart containing the 99% confidence limits for the data, allowing easy identification of deviant points. The accompanying statistics printed with each chart allow rapid assessment of statistically significant linear trends in attitudes.

#### Findings:

The resulting system, TRAMS (Training Monitoring System) proved to be usable for summarizing and displaying attitude data. The current report describes modifications required to use TPAMS for rapid and efficient analysis of any training data quantifiable along an interval scale.

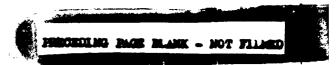
#### Utilization of Findings:

TRAMS provides a system that could be used by the Army to easily monitor training data. Potential users of TRAMS should be acquainted with basic statistics (including linear regression), and may find a familiarity with one or more computer packages for statistical analysis to be helpful.



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#### INTRODUCTION

Those with the responsibility for monitoring large training programs face the problem of extracting information about the operation and progress of the program from massive amounts of data. Coding and analyzing such a formidable amount of data requires many hours of tedious work and is typically subject to human errors when done by hand. One way to alleviate both problems is to use existing computerized statistical packages, such as SPSS, to analyze large amounts of data rapidly and to provide managers with readily interpretable graphic displays of data.

The current report provides a description of a Training Monitoring System (TRAMS), which was initially developed to assess trainees' attitudes toward various aspects of the Army. The system uses an attitude questionnaire developed by ARI based on questionnaires constructed by Drucker (1974) and Kristiansen (1975). The attitude survey for which the SPSS computer programs were tailored was used during the US Army evaluation of Armor One Station Unit Training at Fort Knox (See Dials, Cook, and Bessemer, 1976).

TRAMS uses batch processing with Version 7.0 of SPSS to generate descriptive and quality-control statistics (see, for example, Bennett and Franklin, 1963, chapter 10) on trainee attitudes toward various aspects of the Army. Specifically, seven scales of attitudes are formed from items on an attitude questionnaire. These seven scales are combined to form a total attitude scale, and graphic output on each of the resulting eight scales is provided.

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The user may find the SPSS Manual (1975) useful in interpreting the program and output. SPSS Manual Nr. 437, version 7.0 update, may also be helpful. TRAMS for SPSS could easily be converted to run under SAS 76 (Statistical Analysis System, 1976 version) using the SCATTER procedure, of BMD (Biomedical Computer Programs) using the General Plot procedure of BMD05D. The interested reader is referred to A User's Guide to SAS 76 (1976), and BMD Biomedical Computer Programs (1974). TRAMS could be readily adapted to monitor training, or any other process that involves scoring individuals upon some scale. Appendix A of this report describes how the specific programs for monitoring training attitudes could be modified for analysis of training data. Currently, the system is inappropriate for monitoring dichotomized data, such as GO/NO-GO data. An analogous system for handling GO/NO-GO data could be developed to produce similar output. Specifics would depend on user needs and resources for processing data prior to its submission to Automatic Data Processing. TRAMS is easily adapted to assessing changes in individual attitudes over time. The procedure for making such an adaptation is outlined in this report. A logical extension of assessing change in individual attitude over time is assessing individual performance changes over time, which the user may do easily.

#### OVERVIEW

The specific application of TRAMS reported here consists of four computer programs: (1) a "Summary" program, which accepts the raw data, provides a listing of the raw data, computes composite variables based on

responses to individual questions, prints summary descriptive statistics. and establishes a disk file (TRAZ) containing each individual's standardized scores, (2) an "Aggregate" program, which aggregates, or groups the individual standardized scores according to Company, Battalion, and week the sample was taken, prints the mean and standard deviation of standardized scores separately for each aggregated group, and establishes a disk file (TRAG) containing the number of individual cases in each aggregated group, as well as the mean and standard deviation of each aggregated group, (3) a "Charts" program, which lists the standard errors for each sample taken, prints control charts of trainee attitudes by company and battalion over time for a number of different attitude scales, and provides summary statistics to determine whether there is any significant change in trainee attitudes taking place over time, and finally, (4) "Audit," an administrative program that deletes the disk files established by the first two programs to release disk storage space for other uses. Figure 1 shows the order of running the four programs. Appendix A provides listings of all four programs appropriate for version 7.0 of SPSS. Note that information about a specific computer account has been deleted from the control statements, and that the control statements preceding the SPSS coding are specific to CDC 6000 series operating systems, such as that of the Data Processing Field Office (DPFO) at Ft Leavenworth. Information about control cards for other computer systems should be obtained from the local Management Information System Office (MISO).

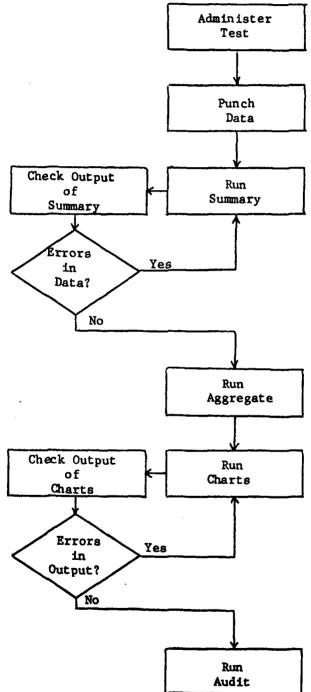


Figure 1. Flow of Programs

#### Interpretation of Output

The Charts program produces plots of attitudes on various scales as a function of the time at which the samples were taken. Figure 2 shows an example of the output from the Charts program along with the statistical results from analysis of the data. The points representing samples from different Companies starting training in different weeks are plotted within a square that is divided vertically into three equal parts by two horizontal dashed lines. The two horizontal lines represent the 99% confidence limits on the values taken by the points plotted on the charts. That is, only 1% of the points would be expected to fall above the top line or below the bottom line due to chance variation in attitudes over time. The horizontal axis of the chart represents the number of weeks elapsed since an arbitrary starting date (see pages I-2 and I-3 of Appendix I of this report), while the vertical axis of the chart represents the number of standard error deviations of a group mean from the grand mean of attitude responses (see pages 7-9 of this report). If a group of points cluster outside the control limits during a given time period, it indicates that some unusual influence may have operated during that time. The specific value for each point on each chart is printed prior to the charts, along with information about Company, Battallion, and the week the sample was taken. Hence, one can read the value of a given point off the chart, and refer to the preceding printout to determine which Company produced a given data point at a given time.

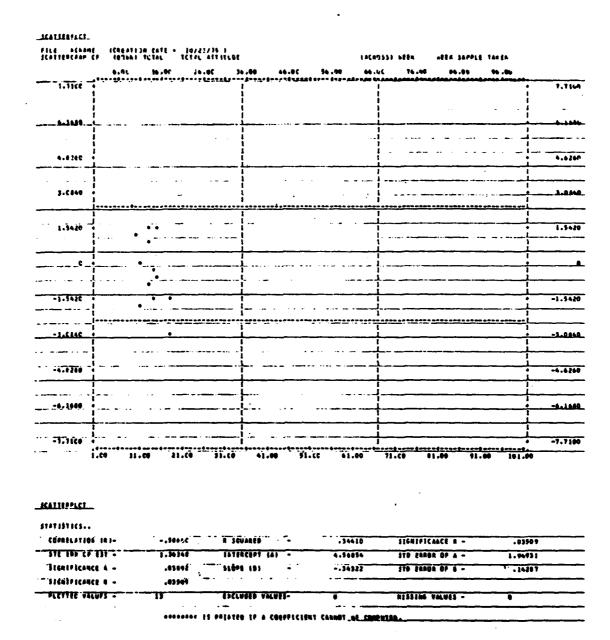


Figure 2. Sample Output of Charts Program

Examining the printout in relation to the charts will provide indications of whether changes in attitudes, or unusually high or low attitudes, are tied to events within a given Company or Battalion, or whether factors external to events in individual units may have influenced attitudes. For example, suppose that an unusual number of high points occur outside the control limits at widely separated times. Upon examination of the printout, one might find that a high proportion of the points above the upper control limit are attributable to a given Company, which would lead one to examine the procedures or activities in that company that may have been responsible for the unusually favorable attitudes toward the Army. On the other hand, a cluster of low points at one time might indicate the influence of an external event, such as severe weather, in that time period.

One must avoid drawing conclusions about one or a few isolated points outside the control limits. Many factors may produce only temporary changes in attitudes, and one should be very cautious about trying to interpret such fluctuation in attitudes.

Perhaps more important than points falling outside the control limits of any chart is the presence of a significant trend occurring over time, reflecting a systematic shift in attitudes. The statistics printed with each cbart help to determine whether any linear trend is statistically significant. Given the printout of Version 7.0 of SPSS, the user only need be concerned with the significance value associated with the slope (B) of the regression line fitted to the points (which is identical to the significance of the correlation coefficient, R). The value on the output

after "SIGNIFICANCE A" simply indicates whether the intercept of the regression line upon the ordinate (Y axis) differs significantly from zero, and does not reflect a test of a significant trend in the data. If the significance level associated with the slope of the regression line reaches .01 or less, the user can be reasonably certain that the data show a reliable increase or decrease in attitudes (or attitude change) over time. For example, the data presented in Figure 2 can best be fitted by a line intercepting the vertical axis at 4,56854 and with a slope of -.34322, indicating a decline in scaled attitude over time. The statistics show that the trend misses the suggested .01 significance level. The user who is familiar with statistics may wish to adopt a more liberal significance criterion. However, the .01 level is recommended here because most training institutions will be handling massive amounts of data and will probably have time and resources to pursue investigation of only highly significant trends. Furthermore, the adoption of a conservative significance level reduces the likelihood that the statistically unsophisticated user will expend unnecessary time and effort investigating spuriously significant trends, or small temporary shifts.

#### Statistical Considerations

TRAMS converts the raw scores on the punched cards to standard scores, or Z scores, for the purpose of analysis. The Z scores for each variable are calculated from all scores submitted with the run for that variable. When the sample is split up into aggregation groups (in this case each

different Company within each different Battalion for each different sample over time), the mean and standard deviation of Z scores for each aggregation group are calculated. Note that since the Z scores are calculated from all raw scores in all samples, the mean Z score will necessarily equal zero and the standard deviation will necessarily equal one for the entire set of scores. However, the mean and standard deviation of Z scores based on the subset of scores for an aggregate group normally will not equal these values.

SPSS converts all raw scores to Z scores, places the Z scores into subgroups, and calculates the mean Z score within each subgroup. The mean Z score within each subgroup (designated Mi(Z),  $i=1, 2, \ldots, K$ , where K is the number of subgroups) is multiplied by the square root of the number of observations within that particular i th subgroup. This manipulation yields  $Z_{M_1}$  defined as the deviation of the mean Z score in the i th subgroup (Mi) from the grand mean (M<sub>G</sub>) standardized in terms of the standard error of the mean (S<sub>M</sub>).

Symbolically, the definition is

$$\frac{z_{Mi} = \frac{Mi - M_G}{S_{M_i}}$$
 (1)

Then substituting for the standard error,  $S_{M_1} = S_G / \sqrt{Ni}$ , where  $S_G$  is the standard deviation of the entire sample, and  $N_1$  is the number of scores in the i th subgroup, the result is

$$z_{\text{Mi}} = \sqrt{\text{Ni} (\text{Mi} - \text{M}_{G})}$$

$$\frac{s_{G}}{s_{G}}.$$
(2)

By definition, the average Z score of a subgroup, denoted by Mi(Z), is

$$Mi(Z) = \underbrace{\frac{\sum_{c} \sum_{j=1}^{Ni} \sum_{j=1}^{Ni} \sum_{g} \sum_{g}}_{N_{i}} = \underbrace{\frac{\sum_{c} \sum_{j=1}^{Ni} \sum_{g} \sum_{g}}_{N_{i}} = \underbrace{\frac{\sum_{c} \sum_{g} \sum_{g} \sum_{g}}_{N_{i}}}_{S_{G}}$$

$$(3)$$

Substituting Mi(Z) for its equivalent in expression (2), the result is

$$^{Z}Mi = \sqrt{Ni} Mi(Z)$$
 (4)

Rescaling the group means in standard error units is necessary to equate the sampling variability among groups of different size. Assuming an approximately normal distribution of the rescaled group means, the table of the normal curve can be used to establish upper and lower control limits and to determine the probability that a group mean will fall between the limits. These limits are the same for each standardized subgroup mean, regardless of sample size. By correctly scaling the ordinate of the graph in the SCATTERGRAM output, the control limits are made to correspond to fixed horizontal lines in normal control chart format.

An advantage of assessing data in terms of their deviation from averages within a large and fairly contemporary sample is that it minimizes the problem of long-term drift in the source population that could be a problem if sample results were compared to some standing set of "norms". A further advantage is that the standard error approach outlined

here does not require extensive amounts of data collection necessary for establishing "norms" before one can begin evaluating data.

TRAMS sets limits of  $\pm$  2.57 standard errors that have a .99 probability of containing a mean. That is, one would expect 99% of the group means to fall within the control limits printed on the Charts output. If a group of points cluster outside the control limits during a given time period, it indicates that some unusual influence occurred during that time. The 99% confidence limits are less stringent than the  $\pm$  3 standard error control limit traditionally used for quality control charts (see Bennett and Franklin, 1963), but were felt to be more easily interpreted by a statistically unsophisticated user. Other limits can be obtained easily by changing parameters on the SPSS SCATTERGRAM procedure cards.

#### Possible Adaptations

TRAMS has a good deal of potential for adaptation to other uses.

Besides monitoring attitudes, the general format for TRAMS could be used to monitor training, when training scores are assigned along a continuum (not GO/NO-GO) and the numbers along the continuum reflect equal intervals along the scoring dimension (i.e., the difference between scores of 1 and 2 is the same as the difference between scores of 9 and 10, etc.). In fact, the approach taken in TRAMS could conceivably be applied to monitoring the output of any system for which the output could be expressed numerically along an equal interval scale. A description of adaptation of TRAMS to hypothetical training data is provided in Appendix B.

Appendix C describes an adaptation of the TRAMS Summary program that interfaces with the existing Aggregate, Charts, and Audit programs to assess changes in individual attitudes over time, rather than assessing group attitudes over time. If the user understands the modifications in Appendix B that allow assessment of training data, there should be little difficulty generalizing those changes and converting the listing in Appendix C to a program for assessing individual training performance changes over time.

#### PROCEDURES

The user of the attitude monitoring system described in this report should see that the attitude questionnaire in Appendix D of this report is administered according to the instructions in Appendix E, and that the resulting data are punched according to the format described in Appendix F. Appendix G gives a brief summary of information for administering the questionnaire and getting the data cards punched. After these are completed, the user can run the four programs for analyzing attitude data. Every time the programs are run, the user <u>must</u> update the card decks by making a few minor modifications. These modifications are indicated by comment cards inserted in the decks, and are described in detail in Appendix H. Additionally, there are modifications that the user may wish to make to the attitude analysis programs for the sake of convenience. These modifications are not absolutely necessary, but may be helpful in many instances. These possible modifications are described in Appendix I.

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#### APPENDIX A

### LISTING OF FOUR ATTITUDE MONITORING PROGRAMS:

A SPECIFIC APPLICATION OF TRAMS

1. SUMMARY PROGRAM

IVIUL, TICOO, CI	
• = Al • AċhT	TA= ,OS= ,TR= ,PI=KCTTAS,
FLADING,KUTTAS	·
FEADING, TRAMS	
FEADING, SUMMAR	
attach, spss, 10	
ri-Jesi-Irre-	
REQUEST, TRAM, *	
->	
CATALUG, TRAW, I	
iataleg, <u>traza i</u>	UE
File NAME	TRAW
CUMMENT	THIS RUN JUTPUTS DESCRIPTIVE STATISTICS ON INPUT SAMPLE
	AND CREATES A BCD FILE OF SCALE SCORES.
COMMENT	RUN NUMBER N. DATE GC HERE
CUMMENT	CHANGE RUN NUMBER AND DATE FOR EACH RUN
NUMBERED	YES
RUN-NAME	CONDESCRIPTIVE STATS
VARIABLE LIST	ITEML TO ITEMGO, CU, PLT, BN, DAY, MO, YR, TYPE, SAMP, MAN
INPUT MECTUA-	-CARD
N CF CASES	519
COMMENT	NUF CASES CARD MUST BE CHANGED FOR EACH RUN-
CJMMENT	N MUST BE EQUAL TO TOTAL NUMBER OF DATA CASES, NOT JUST
THOUT COMME	-NUMBER OF CASES ADUED.
INPUT FORMAT	FIXED (62F1.0,4F2.0,2X,F1.C,F3.C,F4.0)
VAR LABELS	CO CUMPANY /
•	PLT PLATOUN /
	DAY FILL DAY /
	MO FILL MONTH /
	YR FILL YEAR /
•	TYPE TYPE OF TRAINING UNIT
•	SAMP SAMPLE IDENTIFICATION NUMBER /
	MAN INVIVIOUAL IDENTIFICATION NUMBER /
VALUE LABELS	CO (1) A (2) B (3) C (4) D (5) E /
	BN (13) 13TH BN (15) 15TH BN (16) 16TH BN
	(17) 17TH UN (18) 18TH BN (19) 19TH BN
· · · · · · · · · · · · · · · · · · ·	TYPE (1) LIE OSUT (2) LID CSUT
****	(3) 11E AIT (4) 11D AIT (5) BCT /
COMMENT	* CHANGE VALUE LABELS AS REQUIREC TO FIT LCCAL UNITS *
RECODE	ITEM! TO ITEM60, CO TO MAN (BLANK=0)
	ITEM1 TO ITEM60, CO TO MAN (C)
CUUNT DG REPEAT	NORESP = ITEM1 TO ITEM60 (0)
IF	(NORESP GT 6) ITEMX = 0
16	-(NORESP LE 6 AND ITEMX EQ C) ITEMX = 3
END REPEAT	- MANES REALINES SELLE S
CCHHENT	THE NEXT DU REPEAT REVERSES SCORING OF SEVERAL ITEMS SC
- · · · · · - · · · · · · · · · · · · ·	LARGER NUMBERS INDICATE MORE POSITIVE ATTITUDES.
OU REPEAT	-ITEMX - ITEM1 TO ITEM4-ITEM9 TO ITEM11-ITEM18-TC-ITEM21-
	ITEM14, ITEM25, ITEM27, ITEM29, ITEM31, ITEM33 TO ITEM35
	ITEM50, ITEM52, ITEM55, ITEM56, ITEM60
RECODE	-IT 5HX (0=0) (1=5) (2=4) (3=3) (4=2) (5=1)
END REPEAT	
PAGE 1	A_7

CUMPUTE	ARMY = ITEA1 + ITEM6 + ITEM22 + ITEM26 +
	11 Cm44 + 11 EM47 + 1 TEM48 + 1 TEM52
CCMPUTE	OFF = ITEM2 + ITEM7 + ITEM11 + ITEM29 +
	ITEM 34 + ITEM 36 + ITEM 39 + ITEM 50
LCO MPUT E	NCO = ITEN14 + ITEM18 + ITEM23 + ITEM25 +
	ITEM30 + ITEM38 + ITEM46 + ITEM53
COMPUTE	TRNG = ITEM12 + ITEM21 + ITEM31 + ITEM32 +
C. NOUTE	11EM37 + 1TEM42 + 1TEM51 + 1TEM54
CCMPUTE	MOTMOR = ITEM8 + ITEM1C + ITEM15 + ITEM35 +
CUMPUTE	ITEM 41 + ITEM 45 + ITEM 56 + ITEM 59  DISCON = ITEM 5 + ITEM 13 + ITEM 16 + ITEM 20 +
COMPOSE	ITEM 28 + ITEM 33 + ITEM 55 + ITEM 57
COMPUTE	PERSAD = ITEM4 + ITEM9 + ITEM17 + ITEM19 +
	ITEM 27 + ITEM 43 + ITEM 49 + ITEM 58
LUMPUTE	MISC = ITEM3 + ITEM24 + ITEM40 + ITEM60
CUMPUTE	TOTAL = AKMY+UFF+NCC+TRNG+MCTMCR+DISCCN+PERSAD+MISC
iF	(MU) EQ 1) WEEK = RAD((DAY)/7) + 52*(YR-77)
IF	(MU EQ 2) WEEK = RND((DAY+31)/7) + 52+(YR-77)
IF	(MI) EQ 3) WEEK = RND((DAY+59)/7) + 52*(YR-77)
1F	(MO ER 4) WEEK = RND((CAY+90)/7) + 52*(YR-77)
if	(MO EQ 5) WEEK = RND((CAY+12C)/7) + 52+(YR-77)
IF	(MU EQ 6) WEEK = RNC ((DAY+151)/7) + 52*(YR-77)
<u>IF</u>	(MO EQ 7) WEEK = RND((DAY+181)/7) + 52*(YR-77)
IF	(MO EQ 8) WEEK = RND((DAY+212)/7) + 52*(YR-77)
IF IF	(MO EO 9) WEEK = RND(( $CAY+243$ )/7) + 52*( $YR-77$ ) ;
IF	(MO EQ 10) WEEK = RND((DAY+273)/7) + 52*(YR-77) (MO EQ 11) WEEK = RND((DAY+304)/7) + 52*(YR-77)
IF .	(MO EQ 12) WEEK = RND((DAY+335)/7) + 52*(YR-77)
	ARMY TO WEEK (O)
VAR LABELS	ARMY ARMY ORGANIZATION /
	CFF OFFICERS /
	NCO NUNCUMMISSIONED OFFICERS /
	TRNG TRAINING /
	MOTMOR MOTIVATION AND MCRALE /
· · · · · · · · · · · · · · · · · · ·	DISCON DISCIPLINE AND CONTROL /
•	PERSAD PERSONAL ACJUSTMENT /
	MISC MISCELLANEOUS /
	TOTAL TOTAL FOR ALL 60 ITEMS /
· · · · · · · · · · · · · · · · · · ·	NORESP NUMBER OF NONRESPONSES / WEEK FILL WEEKS AFTER 1JAN77 /
COMMENT	****FIRST CONDESCRIPTIVE ROLTINE CUTPUTS STATISTICS FOF***
	****ONLY THE MOST RECENT SAMPLE. SECOND CONDESCRIPTIVE****
	****ROUTINE UUTPUTS STATISTICS FOR ALL SAMPLES TO CATE, ****
	****OR THE SAMPLE DESIGNATED BY THE *SELECT IF CARD. *****
TASK NAME	DESCRIPTIVE STATISTICS FOR TRAMS SAMPLES AND LATEST SAMPLE
CUMMENT	* USE LISTING TO CHECK ORDER CF INPUT CARDS *
*SELECT IF	(SAMP EQ 3)
LIST CASES	CASES=100000/ VARIABLES = CC TO MAN, NCRESP, WEEK
CUMMENT	REMOVING THE LIST CASES AND *SELECT IF CARDS WILL SUPPRESS
•	LISTING OF ANY DATA FOR A GIVEN RUN. INCLUDING BOTH WILL
	ALLOW THE USER TO OBTAIN A LISTING OF THE MOST RECENT SAMPLE PROVIDED THAT THE NUMBER ON THE SAMP EQ STATEMENT IS CHANGE
	TO THE NUMBER OF THE MOST RECENT SAMPLE.
<del>, , , , , , , , , , , , , , , , , , , </del>	REMOVING UNLY THE *SELECT IF CARD WILL ALLOW THE USER TO LI
<u> </u>	ALL DATA FRUM ALL SAMPLES INPLT.
CCNDESCRIPTIVE	TOTAL, ARMY TO PERSAD
FAGE 2	
•	

READ INPUT DATA	
COMMENT	*PLACE CATA CARDS IN CROER AFTER READ INPUT DATA CARD* <1> ORDER SAMPLES FROM LOWEST TO HIGHEST SAMPLE NUMBER
	<2> CRDER CARDS FROM LOWEST TO HIGHEST MAN NUMBER
TO CONTAINE NAMES	WITHIN EACH SAMPLE
RAW DUTPUT UNIT CLADESCRIPTIVE CPTICNS	TOTAL, ARMY TO PERSAD  3
STATISTICS	1,5,10,11
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2. ACCREGATE PROGRAM

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[454, [4]		
-EADING KOTTAS		
-CALING. THAMS		
-LACING, AUGREG.	ATE .	
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ALTACH, TRAZ, ID		
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ATALUG, TRAG, I		
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NUMBERED	YES	<u> </u>
JUMMENT	RUN NUMBER N. DATE GC HERE	02
IUN NAME	AGGREGATE SCORES BY COMPANY, BATTALION, AND WEEK	_C3_
JET FILE	TRAW	04
	ZTOTAL, ZARMY, ZOFF, ZNCG, ZTRNG, ZMTNGR, ZDSCCN, ZPRSAD	_05
INPUT MEDIUM	DISK	06
	FIXEO(16X, 8F8.5)	07
	ZTOTAL TO ZPRSAD(999)	80
RAW DUTPUT UNL		_ç <sub>2</sub> _
AGGREGATE	GROUPVARS=CO. BN. WEEK/	10
	VARIABLES=ZTOTAL TO ZPRSAD/ AGGSTATS=VALIDN,MEAN,SD/RMISS=999	-i2
TOTICNS	3,9	13
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3. CHARTS PROGRAM

	100000, SPUU. + IRAMS SCATTERPLOT + TA= , US=, , TR= , PI=BK.
· · · · · · · · · · · · · · · · · · ·	The Your Yearding
LACING, THAMS	
LAUING, CHARTS	
	=PIBLIC,MR=1.
altach, erag <mark>, 10</mark>	
۵PSS+D=TRAG.	
oudkeit	BUN NUMBER N. DATE GO HERE
	SCATTERPLUT.
VARIABLE LIST	N, CU, BN, WEEK, ZIUTAL, ZARMY, ZCFF, ZNCO, ZTRNG, ZMIMCR, ZDSCON,
INPUT MEDIUM	• · • · •
WIMNERT	-N. OF CASES IS THE NUMBER OF SAMPLES IN THE CURRENT ANALYSIS.
CUMMENT	*************************
	-IF-THERE IS ANY DUUBT ABOUT THE NUMBER CF-CASES IN THE
	CURRENT ANALYSIS, YOU MAY LOOK AT THE OUTPUT OF THE
<del></del>	_AGGREGATE_RUN_ THE_NUMBER_CF_AGGREGATE_GROUPS_KILL_BE
	EQUAL TO THE NUMBER OF CASES. THE NUMBER OF AGGREGATE
	-GROUPS-CAN BE WILCKLY DETERMINED BY LOCKING-AT-THE GROUP-IC-
	NUMBER OF THE LAST AGGREGATE GROUP ON THE PRINTGUT.
or care	
N OF CASES	13
COMMENT	FORMAT-IN-WHIGH-THE AGGREGATE VARIABLES ARE CUTPUT IS
	SPECIFIED AT THE END OF THE AGGREGATE PRINTOUT. CHECK
	PRINTOUT UF-AGGREGATE-RUN-FOR-THIS-SAPPLE-AND-CCMPARE The Fopmat in which
	TRAG WAS WRITTEN WITH_THE_INPUT_FORMAT_FOR_THIS_JOB
	ONLY THE MEANS OF THE AGGREGATE OUTPUT WILL BE READ INTO THIS
	JOH- AS-VARIABLES. IF THE CUTPUT AND INPUT FCRMATS OC
	NOT MATCH, CHANGE THE INPLT FORMAT FOR THIS JOB.
INPUT- FORMAT	-FIXED(8X+F8+0+3F12+0+8(/8X+F14+4))
UMPUTE	TOTAL=ZTCTAL * SURT(N)
CUMPUTE	-ARMY=ZARMY+SURT(N)
	UFF=ZOFF*SURT(N)
	NCO=7NCO+SURT(N)
LUMPUTE	TRNG=ZTRNG*SQRT(N)
	HTHCR=ZMTHOR*SURT(N)
COMPUTE	DS CCN= ZO SCON * SQRT (N)
CMPUTE	-PRSAC=ZPRSAU*SQRT (N)
AK LABELS	CU, COMPANY/
<del></del>	-INT-BATTALIUNZ
•	WEEK, WEEK SAMPLE TAKEN/
-T	-TOTAL, TOTAL ATTITUDE/
•	ARMY, ATTITUDE TUWARC ARMY/
***	OFF - ATTITUDE TUNARO OFFICERS/
	NCO, ATTITUDE TOWARD NCOS/
<del></del>	-TRNG; -ATT-I-1-UUL-TUWARO-TRAINING/
	MTMCR, MOTIVATION AND MORALE/
	-OSGGN+ -DISGIPLINE-AND CONTROL/
CUMMENT	PRS AU+ PERSUNAL ADJUSTMENT —SGATTER GPAH…GAKDS-PUNGHED—SC—INDI-VI DUAL—VAR I ABLES—CAN
YOURGIVE .	BE REMOVED IF DESIRED. NOTE THAT REMOVING OR ADDING A
	-VARIABLE-WILL REWURNG A FORMAT CHANGE
**************************************	IF YOU DO NOT WISH TO OBTAIN A LISTING OF ALL QUESTIONS
CCMMENT	TE LAG AA MAI MYSU IA MAINYK W ETSITUA DE WEE AMESITANS

SOMEWHAT LESS RESPECT <1> I HAVE MUCH LESS RESPECT  47. HOW HAVE YOUR HILLTARY EXPERIENCES CHAGED YOUR  INTEREST IN MAKING A CAREER OF THE ARMY?  <1> I HAVE MUCH LESS INTERST <2> I HAVE SOME LESS  IMTERST <3> I HAVE NO LESS INTERST <4> I HAVE MORE  INTERST <5> I HAVE NO LESS INTERST <4> I HAVE MORE  INTERST <5> I HAVE NO LESS INTERST <4> I HAVE MORE  INTERST <5> I HAVE NO LESS INTERST <4> I HAVE MORE  INTERST <5> I HAVE NO LESS INTERST <4> I HAVE MORE  INTERST <5> I HAVE NO RESSEARY <4> INTERST <5  ** HAVE MUCH PROCESSARY <4> HOST ARE NECESSARY  30 MANY ARE NECESSARY <2> SOME ARE NECESSARY  51. HOW HAVE YOUR MILITARY EXPERIENCES AFFECTED YOUR  CONFIDENCE IN THE ARMYS ABILITY TO DEFEND CUR COUNTRY TO SOME HORE  CONFIDENCE <5> MY CONFIDENCE <4> I HAVE MUCH LESS CONFIDENCE  ** OFFICERS **  1. HOW MUCH MORE CONFIDENCE <4> I HAVE MORE  CONFIDENCE <5> HAVE MUCH LESS CONFIDENCE  ** OFFICERS **  2. HOW WELL DO YOUR OFFICERS UNDERSTAD THE NEED AND  PROBLEMS OF THEIR MEN ?  <5> EXTREMELY WELL <4> VERY WELL <3> PRETTY WELL  <5> EXTREMELY WELL <4> VERY FOORLY  7. HOW MUCH RESPECT DO YOU HAVE FOR YOUR OFFICERS ?  <1> HANDLY ANY <2> A LITTLE BIT <3> SOME  <1> HANDLY ANY <2> A LITTLE BIT <3> SOME  TELL YOU ENOUG ABOUT IT SO YOU CAN DO A GOOD JOB ?  <5> ALMAYS ENDUGH <4> USUAL LAWYS NEVER ENCUGH  29. GAN YOU TRUST YOUR OFFIGERS NOT TO GET THINGS ALL  FOULED UP ?  <5> ALMOST ALMAYS <4> MOST OFF THE TIME <3> MUCH CF  THE TIME <2> ONLY SOMETIMES <1> USUALLY NOT	c.	
TIN-GENERAL, HUW-BELL-DG-YGU-THINK-THE-ARMY-IS-PUNZ-  (5) EXTREMELY WELL (4) VERY WELL (3) PRETTY WELL  (2) NOT-YEVEN WELL (4) VERY WELL (3) PRETTY WELL  (2) NOTES HE ARMY DO HEAT IS POSSIBLE TO PUT MEN IN THE ARMY BASEC ON ABILLITY?  (1) ONLY SLIGHTLY (2) SCHEWHAT (3) QUIT A BIT  (4) A GREAT-DEAL (5) ALMOST-ENTIRELY.  22. DIES THE ARMY DO HHAT IS POSSIBLE TO PUT MEN IN THE JUNGS-FIRA HHICH-THEY-ARE-MCS-I SULTED-?  (1) HANDLY ANYTHING IS DONE (2) NOT PUCH IS DONE  (3) SUME-THINGS-ARE-DONE-(4) MOST THINGS-ARE-GONE  (3) SUME-THINGS-ARE-DONE-(4) MOST THINGS-ARE-GONE  (3) SUME-THING POSSIBLE IS CORE  24 HUM-GUID-IS-THE-QUIPMENT-IN-THE-ARMY-7  (1) VERY POUR (2) NOT VERY GOOD (3) PRETTY GOOD  (4) VERY JOUR MILITARY EXPERIENCES CHANGED YOUR  RESPECT-FOR-THE-ARMY-7  (5) I HAVE HUCH MORE RESPECT (4) I HAVE SCMEWHAT  HUM-RESPECT-(3) - HAVE-NO-LESS RESPECT-(2) - HAVE  SOMEWHAT LESS RESPECT (1) I HAVE MUCH LESS RESPECT  47-MOM-MATE YOUR MILITARY EXPERIENCES-CHECKED YOUR  INTEREST IN MAKING A CAREER OF THE ARMY 7  (1) HAVE MUGH HESS INTERST (4) I HAVE SCME LESS  IMTERST (3) I HAVE NO LESS INTERST (4) I HAVE MORE  INTERST (3) I HAVE NO LESS INTERST (4) I HAVE MORE  INTERST (3) I HAVE NO LESS INTERST (4) I HAVE MORE  INTERST (3) I HAVE NO LESS INTERST (4) I HAVE MORE  INTERST (4) HAVE NOLESS INTERST (4) I HAVE MORE  INTERST (5) HAVE MUCH MORE RESPECT (7) HAVE MORE  (5) HAVE MUCH HORE CONFIDENCE INTERST (4) I HAVE MORE  (4) CHI-GONE (5) HAVE MUCH HORE THE FROM (6) HAVE YOUR MILITARY EXPERIENCES AFFECTED YOUR  (5) HAVE MUCH MORE CONFIDENCE (5) HAVE MORE  (5) CHI-GONE (3) MY CONFIDENCE (1) I HAVE MORE HORE  (5) HAVE MUCH MORE CONFIDENCE (4) I HAVE MORE  (5) HAVE MUCH MORE CONFIDENCE (4) I HAVE MORE  (5) HAVE MUCH MORE CONFIDENCE (4) I HAVE MORE  (5) HAVE MUCH MORE CONFIDENCE (4) I HAVE MORE  (5) HAVE HUCH HORE CONFIDENCE (4) I HAVE MORE  (5) HAVE HUCH HORE CONFIDENCE (6) HAVE MORE  (5) HAVE HUCH HORE CONFIDENCE (6) HAVE MORE  (6) HOR HAVE YOUR MILITARY EXPERIENCES ARTHERED (7) HAVE MORE  (7) HAVE HUCH HORE  (8) HAVE YOUR MILITAR	—ს - 1	
CSD EXTREMELY WELL (4) VERY WELL (3) PRETTY WELL (2) NOT VERY WELL (1) VERY PECRLY (1) WHAI EXTENT ARE PROMOTIGNS IN THE ARMY BASEC ON HAILITY? (1) ONLY SLIGHTLY (2) SGMEWHAT (3) CUIT A BIT (4)—A GREAT-DEAL (5) ALMOST-ENTIRELY (2) LIES THE ARMY DO WHAT IS POSSIBLE TO PUT MEN IN THE DURS FOR WHICH THEY ARE MCST-SULTED ? (1) HANDLY ANYTHING IS DONE (2) NOT MUCH IS DONE (3)—SUME-THINGS—ARE—DONE—(4)—MOST—THINGS—ARE—GONE (5)—EVERYTHING POSSIBLE IS DONE (6)—SUME-THINGS—ARE—DONE—(4)—MOST—THINGS—ARE—GONE (7)—VERY POOR (2) NOT VERY GOOD (3) PRETTY GOOD (4)—VERY POOR (2) NOT VERY GOOD (3) PRETTY GOOD (4)—VERY GOOD (5)—EXCELLENT (4)—WHAY FOUND (5)—EXCELLENT (4)—WHAY FOUND (4)—EXCELENT (4)—WHAY FOUND (4)—EXCELENT (5)—I HAVE MUCH MORE RESPECT (4)—I HAVE SCMEWHAT (6)—HAVE—YOUR—HILLTARY EXPERIENCES—CHAGGED YOUR INTEREST IN MAKING A CAREER OF THE ARMY ? (4)—I HAVE—YOUR—HILLTARY EXPERIENCES—CHAGGED YOUR INTEREST IN MAKING A CAREER OF THE ARMY ? (4)—I HAVE—MUCH—LESS—INTERST—(4)—I HAVE—SCME—LESS INTERST—(3)—I HAVE—NO LESS INTERST (4)—I HAVE—FORE INTERST—(3)—I HAVE—HOLDH—FORE—INTERST  40—MHAT IS YOUR OPINION OF ARMY RULES AND REGULATIONS ? (5)—MANY ARE NECESSARY (2)—MOST—ARE—NECESSARY (3)—MANY ARE NECESSARY (3)—MANY ARE NECESSARY (3)—MANY ARE NECESSARY (4)—MOST—ARE—NECESSARY (3)—MOST—ARE—NECESSARY (3)—MOST—ARE—NECESSARY (4)—MOST—ARE—NECESSARY (3)—MOST—ARE—NECESSARY (4)—MOST—ARE—NECESSARY (4)—MOST—ARE—NECESSARY (4)—MOST—ARE—NECESSARY (5)—MOST—ARE—NECESSARY (6)—MOST—ARE—NECESSARY (7)—MOST—ARE—NECESSARY (7)—MOST—ARE—NECESSARY (7)—MOST—ARE—NECESSARY (7)—MOST—ARE—NECESSARY (7)—MOST—ARE—NECESSARY (7)—MOST—ARE—NECESSARY (7)—MOST—ARE—N	-	
C2> NUT YERY MELL! C1> VERY FCGRLY.  6. TH WHAT EXTENT ARE PROMOTIONS IN THE ARMY BASEC ON ABILLITY?  (1) ONLY SLIGHTLY (2) SCMEMAT (3) CUIT A BIT  (4)—A GREAT-DEAL-C5> ALMOST-ENTIRELY.  22. DIES THE ARMY DO MHAT IS POSSIBLE TO PUT MEN IN THE UNDS. FIRE MHICH THEY ARE MCST-SULTED?  (1) HANDLY ANYTHING IS DONE (2) NOT MUCH IS DONE (3)—SUME. THINGS—ARE—DONE (4)—MOST—THINGS—ARE—CONE (5)—EVERYTHING POSSIBLE IS DONE (2)—EVERYTHING POSSIBLE IS DONE (4)—WHAT GOOD (5)—EXCELLENT (4)—WHAT GOOD (5)—EXCELLENT (4)—WHAY EYOUR MILITARY EXPERIENCES CHANGED YOUR RESPECT—FOR—THE—ARMY—?  (5)—I HAVE MUCH MORE RESPECT (4)—I HAVE SCMEWHAT HORE—RESPECT—FOR—THE—ARMY—?  (5)—I HAVE MUCH MORE RESPECT (4)—I HAVE MUCH LESS RESPECT (7)—I HAVE MUCH LESS RESPECT—(2)—I HAVE SOMEWHAT LESS RESPECT—(1)—I HAVE MUCH LESS RESPECT—(2)—I HAVE SOMEWHAT LESS RESPECT—(3)—I HAVE MUCH LESS RESPECT—(3)—I HAVE MUCH LESS RESPECT—(3)—I HAVE MUCH LESS RESPECT—(3)—I HAVE MUCH LESS NESPECT—(4)—I HAVE MUCH LESS RESPECT—(5)—I HAVE MUCH LESS INTERST—(4)—I HAVE FORE—LESS—I MITERST—(3)—I HAVE NO LESS INTERST—(4)—I HAVE FORE—LESS—I MITERST—(5)—I HAVE MUCH LESS INTERST—(4)—I HAVE FORE—LESS—I MATERST—(5)—I HAVE MUCH LESS AND REGULATIONS?  (5)—I HAVE MUCH LESS—INTERST—(4)—I HAVE FORE—LESS—I MATERST—(5)—I HAVE MUCH LESS AND REGULATIONS?  (5)—I HAVE MUCH LESS—INTERST—(4)—I HAVE FORE—INTERST—(5)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—(4)—I HAVE FORE—INTERST—INTERST—(4)—I HAVE—INTERST—(4)—I HAVE—INTERST—(4)—I HAVE—INTERST—(4)—I HAVE—INTERST—(4)—I HAVE—INTERST—(4)—I HAVE—INTERST—(4)—I HAVE—INTERST—(4)	— <u>1</u> —	
6. TU MHAT EXTENT ARE PROMOTIGNS IN THE ARMY BASEC ON  ABILITY?  (1) ONLY SLIGHTLY <2> SGMEKHAT <3> CUIT A BIT  (4)—A GREAT-DEAL—C5> ALMCST—ENTIRELY  22. OLES THE ARMY DO MHAT IS POSSIBLE TO PUT MEN IN THE  JORS—FIR—HHIGH—THEY—ARE—MCST—SULTED—?  (1) HANDLY ANYTHING IS DORE <2> NOT MUCH IS DORE  (3)—SUME—THINGS—ARE—DORE—<4> MOST—THINGS—ARE—GORE  (5)—EVERYTHING POSSIBLE IS CORE  (4)—VERY—GODD—IS—THE—EQUIPMENT—IN—THE—ARMY—?  (1) VERY—POUN <2> NOT VERY GOGD <3> PRETTY GODD  (4)—VERY—GODD—IS—EXCELLENT  44. HOW HAVE YOUR MILITARY EXPERIENCES CHANGED YOUR  RESPECT—GOR—THE—ARMY—?  (5)—I HAVE—MUCH MORE RESPECT <4> I HAVE SCMEWHAT  HÜRE—RESPECT—3>—I—HAVE—NO—LESS—RESPECT—(2>—I—HAVE— SOMEWHAT LESS RESPECT <1) I HAVE MUCH LESS RESPECT  47. HOW—HAVE—YOUR—HIL-THARY EXPERIENCES—CHAGED YOUR  INTEREST IN MAKING A CAREER OF THE ARMY?  (1)—I HAVE—MUCH—LESS—INTERST—(4>—I HAVE—MCGE  INTERST—(5>—I—HAVE—MUCH—MCRE—INTERST  48. HHAT IS YOUR OPINION OF ARMY RULES AND REGULATIONS?  (3)—MANY ARE NECESSARY <2>—I HAVE—MCGESSARY  (3)—MANY ARE NECESSARY <2>—I HAVE—MCGESSARY  (3)—MANY ARE NECESSARY <2>—I HAVE—MORE—INTERST—CHACESSARY  (3)—MANY ARE NECESSARY <2>—I HAVE—MORE—INTERST—CHACESSARY  (4)—MAVE—YOUR MILITARY EXPERIENCES AFFECTED YOUR  CONFIDENCE—IN—THE—RANS—A BHILITY TO—OFFEND—CUR—CCUNTRY—1  (5)—I HAVE—MUCH MGRE CONFICENCE—AFFECTED YOUR  CONFIDENCE—IN—THE—RANS—A BHILITY—TO—OFFEND—CUR—CCUNTRY—1  (5)—HAVE—MUCH MGRE CONFICENCE—AFFECTED YOUR  CONFIDENCE—IN—THE—RANS—A BHILITY—TO—OFFEND—CUR—CCUNTRY—1  (5)—NUT—VERV—MELL—(4)—VERY—FEGREY  7. HOW WELL DO YOUR OFFICERS UNDERSTAD THE REED AND PROBLEMS—OF—THEIR—MEN—2  (4)—A FAIR AMONT—(5)—A GREET FOR OUR OFFICERS ?  (4)—A FAIR AMONT—(5)—A GREET FOR OUR OFFICERS ?  (4)—A FAIR AMONT—(5)—A GREET FOR OUR OFFICERS POUR CAN YOU TRUST—YOUR OFFICERS—OUT—THE—THINGS—ALL FOULED UP ?  (5)—ALMOST—SENDED CHACE—STRE—THE—CS—THINGS—ALL FOULED UP ?  (5)—ALMOST—SENDED CHACE—OUR CONTRES—COURTHMS—CUR—THINGS—ALL FOULED UP ?  (5)—ALMOST—ANY—SENDEN—CUR—THE—COURTHMS—COURTHMS—CUR—THINGS—ALL FOULED UP ?  (5)—ALMOST—ANY—SENDEN—C	_1_	_
ABILLITY  <1>ONLY SLIGHTLY <2> SGMEWHAT <3> CUIT A BIT  <4>A GREAT-DEAL <5> ALMCST-ENTIRELY  22. DIES THE ANMY DO WHAT IS POSSIBLE TC PUT MEN IN THE  JONGS FIRA HHIGH THEY ARE MCST-SUTTED?  (1) HARDLY ANYTHING IS DONE <2> NOT THUNGS ARE GORE  3> SUMES THINGS ARE CORNE <4> NOST THINGS ARE GORE  (5) EVERYTHING POSSIBLE IS CONE  26- HUM GUIGO-LY-THE-COUIPNENT-IN-THE-ARMY-7  (1) VERY POUR <2> NOT VERY GOOD <3> PRETTY GOOD  44> VERY GOUD <5> EXCELLENT  44- HOW HAVE YOUR MILITARY EMPERIENCES CHANGED YOUR  RESPECT FOR-THE-ARMY-7  (5) I HAVE MUCH MORE RESPECT <4> I HAVE SCMEWHAT  HURE-RESPECT +60R-THE-ARMY-7  (5) I HAVE MUCH HORE RESPECT <2> THAVE  SOMEWHAT LESS RESPECT <1> I HAVE WUCH LESS RESPECT  47- HOW HAVE YOUR MILITARY EMPERIENCES CHACGED YOUR  INTEREST IN MAKING A CAREER OF THE ARMY ?  (1) I HAVE MUCH LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> I HAVE WORE  INTERST <3> I HAVE NO LESS INTERST <4> HAVE WORE  CONFIDENCE IN THE ARMY-A BALLITY TO DEFEND CUR COUNTRY-1  (5) LHAVE WORN HILLTARY EXPERIENCES AFFECTED YOUR  CONFIDENCE <1> I HAVE MUCH LESS CONFIDENCE  4 OF THEIR ARMY-A CONFIDENCE SARY  2 MUM WELL DO YOUR OFFICERS UNDERSTAD THE NEED AND  PROBLEMS OF THEIR MEN ?  (5) EXTREMELY WELL <4> VERY KELL <3> PRETTY WELL  (2) NOT VERY WELL <4> VERY FEGRIFY  (4) A FAIR AMENT <5> A GREAT DEAL  11- WHEN YOUR OFFICERS OFFICERS OFT THE SAN SEVER ENCUGH  20 CAN YEU TRUST YOUR OFFICERS OFT THE THE <3> MUCH CF  FOULED UP ?  (5) ALHOST ALHAY	ī	
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22. Girs The Army Du What TS PUSIBLE TO PUT MEN THE  JOHNS FINE WHICH THEY ARE MCST-SUFTED -?  (1) HARDLY ANYTHING IS DONE <2> NOT MUCH IS DONE  (3) SUME THINGS ARE DONE <4> MOST THINGS ARE GONE  (5) EVERYTHING POSSIBLE IS DONE  26. HUM GURD IS THE EQUIPMENT IN THE ARMY -?  (1) VERY POOR <2> NOT VERY GOOD <3> PRETTY GOOD  (4) VERY GOOD -6> EXCELLENT  44. HOW HAVE YOUR MILITARY EXPERIENCES CHANGED YOUR  RESPECT FOR THE ARMY -?  (5) I HAVE MUCH MORE RESPECT <4> I HAVE SCMEWHAT  HUMGE RESPECT <3> I HAVE MUCH LESS RESPECT <2> I HAVE  SOMEWHAT LESS RESPECT <1> I HAVE MUCH LESS RESPECT  47. HOW HAVE YOUR HILITARY EXPERIENCES CHARGED YOUR  INTEREST IN MAKING A CAREER OF THE ARMY ?  (1) I HAVE MUCH LESS INTERST <2> I HAVE SCME LESS  INTERST <3> I HAVE NO LESS INTERST <2> I HAVE SCRE LESS  INTERST <5> I HAVE MUCH MERE INTERST  48. WHAT IS YOUR OPINION OF ARMY RULES AND REGULATIONS ?  (3) MANY ARE NECESSARY <2> SCME ARE NECESSARY  (3) MANY ARE NECESSARY SARY + MOST ARE NECESSARY  (3) MANY ARE NECESSARY SARY + MOST ARE NECESSARY  (3) MANY ARE NECESSARY SARY + MOST ARE NECESSARY  (3) MANY ARE NECESSARY  (4) CONLY A FEW ARE NECESSARY  (5) I HAVE MUCH MORE CONFILENCE <3) I HAVE MOCE  COMFIDENCE IN THE ARMYS ABILITY TO DEFEND OUR COUNTRY :  (5) I HAVE MUCH MORE CONFILENCE <3) I HAVE MOCE  COMFIDENCE <3> MY CONFIDENCE DID NOT CHANGE <2> I HAVE  10 PROBLEMS OF THEIR MEN ?  (5) EXTREMELY WELL <4> VERY MELL <3> PRETTY WELL  (2) NOT VERY WELL <4> VERY FELL <3> PRETTY WELL  (2) NOT VERY WELL <4> VERY FELL <3> SCRE  (1) WHEN YOUR OFFICERS GIVE YOU SOMETHING TO DO - DC THEY  TELL YOU ENOUGH BOT THE MEN ?  (4) A FAIR AMONT <5> A GREAT DEAL  11 WHEN YOUR OFFICERS GIVE YOU SOMETHING TO DO - DC THEY  TELL YOU ENOUGH BOT THE THE SOME SALE  ENOUGH <2> OFTEN NOT ENCUGH <1> ALMAYS NEVER ENCUGH  THE TIME <2> ONLY SOMETHES <1> USUALLY NGT	1	
22. Girs The Army Du What TS PUSIBLE TO PUT MEN THE  JOHNS FINE WHICH THEY ARE MCST-SUFTED -?  (1) HARDLY ANYTHING IS DONE <2> NOT MUCH IS DONE  (3) SUME THINGS ARE DONE <4> MOST THINGS ARE GONE  (5) EVERYTHING POSSIBLE IS DONE  26. HUM GURD IS THE EQUIPMENT IN THE ARMY -?  (1) VERY POOR <2> NOT VERY GOOD <3> PRETTY GOOD  (4) VERY GOOD -6> EXCELLENT  44. HOW HAVE YOUR MILITARY EXPERIENCES CHANGED YOUR  RESPECT FOR THE ARMY -?  (5) I HAVE MUCH MORE RESPECT <4> I HAVE SCMEWHAT  HUMGE RESPECT <3> I HAVE MUCH LESS RESPECT <2> I HAVE  SOMEWHAT LESS RESPECT <1> I HAVE MUCH LESS RESPECT  47. HOW HAVE YOUR HILITARY EXPERIENCES CHARGED YOUR  INTEREST IN MAKING A CAREER OF THE ARMY ?  (1) I HAVE MUCH LESS INTERST <2> I HAVE SCME LESS  INTERST <3> I HAVE NO LESS INTERST <2> I HAVE SCRE LESS  INTERST <5> I HAVE MUCH MERE INTERST  48. WHAT IS YOUR OPINION OF ARMY RULES AND REGULATIONS ?  (3) MANY ARE NECESSARY <2> SCME ARE NECESSARY  (3) MANY ARE NECESSARY SARY + MOST ARE NECESSARY  (3) MANY ARE NECESSARY SARY + MOST ARE NECESSARY  (3) MANY ARE NECESSARY SARY + MOST ARE NECESSARY  (3) MANY ARE NECESSARY  (4) CONLY A FEW ARE NECESSARY  (5) I HAVE MUCH MORE CONFILENCE <3) I HAVE MOCE  COMFIDENCE IN THE ARMYS ABILITY TO DEFEND OUR COUNTRY :  (5) I HAVE MUCH MORE CONFILENCE <3) I HAVE MOCE  COMFIDENCE <3> MY CONFIDENCE DID NOT CHANGE <2> I HAVE  10 PROBLEMS OF THEIR MEN ?  (5) EXTREMELY WELL <4> VERY MELL <3> PRETTY WELL  (2) NOT VERY WELL <4> VERY FELL <3> PRETTY WELL  (2) NOT VERY WELL <4> VERY FELL <3> SCRE  (1) WHEN YOUR OFFICERS GIVE YOU SOMETHING TO DO - DC THEY  TELL YOU ENOUGH BOT THE MEN ?  (4) A FAIR AMONT <5> A GREAT DEAL  11 WHEN YOUR OFFICERS GIVE YOU SOMETHING TO DO - DC THEY  TELL YOU ENOUGH BOT THE THE SOME SALE  ENOUGH <2> OFTEN NOT ENCUGH <1> ALMAYS NEVER ENCUGH  THE TIME <2> ONLY SOMETHES <1> USUALLY NGT	-1-	
(1) HANDLY ANYTHING IS DORE <2> NOT MUCH IS DORE  -3> SUME-THINGS ARE DONE <4> MOST THINGS ARE GONE  -20 HOW GODD IS THE EQUIPMENT IN THE ARMY -7  -(1) VERY POUR <2> NOT VERY GOOD <3> PRETTY GOOD  -(4) VERY GOOD <5> EXCELLENT	1	
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14	NONCOMMISSIONED OFFICERS +	3 3	
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•		5 5	
	35. HAS THE MORALE IN YOUR COMPANY GOTTEN BETTER AS TIME	5	
<del></del>		_5_	
		5 5	_
	SUMEWHAT WORTHWHILE <1> IT ISNT VERY WORTHWHILE	5	
		_5_	_
	<5> IT IS EXTREMELY WORTHWHILE <4> IT IS VERY	-j-	
· · · · · · · · · · · · · · · · · · ·	10. DO YOU FEEL THAT WHAT YOU ARE DOING IN THE ARMY IS	5 -5	_
		-5-	-
•	<1> FEN UF THEM <2> SCME OF THEM <3> MANY OF THEM	5	
	TRAINING ?	ے. 5_	_
	* MOTIVATION AND-MORALE * B. HUW MANY MEN IN YOU UNIT WALT TO DO A GOOD JOB IN	-5- 5·	-
	EXTREMELY SATISFIED		
		<u>-4</u>	
	<pre><!----> VERY DISSATISFIED &lt;2&gt; NCT VERY DISSATISFIED</pre>		
	54 HUW SATISFIED ARE YOU WITH THE TRAINING YOU HAVE BEEN	4 _4_	
		-4-	
	<1> MUCH EASIER <2> SCMEWHAT EASIER <3> NOT ANY HARDER	4	
·	THE IT IS 7	<del>-4</del> -	
•	51. SHOULD COMBAT TRAINING BE MADE EASIER OR HARDER	<del>-4-</del>	
•	<5> EXCELENT <4> VERY GCCC <3> PRETTY GCCD	4	
<del></del>		-4-	
•	<2> NOT VERY WELL <1> VERY FCCRLY	4	
	TEACH ? 	_4 _4_	
	- 37 HOW NELL DO YOUR TRAINING INSTRUCTORS KNOW HOW TO	4	
	<4> NUT VERY UFTEN <5> ALMOST NEVER	4	
<del></del>		<del>-4</del> -	
	<2> MUCH MORE <1> VERY MUCH MGRE	4	
<del></del>		_4_	_
	READY I OR CUMBAT ?	4	
	<2> PRETTY TOUGH <1> MUCH TCC TOUGH 31  HUW-HUCH HUKE-TRAINING-DG-YCU-THINK-YCU-NEED-TC-8E	4	
		_4-	-
		J.	

	PRETTY GOUD CHANCE <4> A VERY GCOO CHANCE <5> AN	5
<del></del>	EXCELLINT-CHANCE	
	* DISIPLINE AND CONTRCL *	6
	-5 DJ -YOU THINK THERE -IS-TCO-MUCH-UNECESSARY	6-
	HARASSMENT IN THE ARMY ?	6
<del></del>		_6_
	TUU MULH <4> NUT TOO MUCH <5> HARDLY ANY	6
	-13- HUW- OF TEN-DO-MEN -IN-YOUR-LNGT-GET-PUNISHED FOR	_6_
	SOMETHING THAT ISNT THEIR FAULT ?	6
		6_
	<4> NOT VERY OFTEN <5> ALMOST NEVER	6
	16 HOW IS THE MILITARY CONTROL AND DISCIPLINE IN YOUR	6
	UNIT?	6
		6_
	RIGHT <4> A LITTLE TCO LCCSE <5> MUCH TGO LCOSE	6
	20 IS DISCIPLING NECESSARY TO GET MEN TO DO THINGS	6_
•		-
	THE RIGHT WAY ?	6
		6_
•	NECESSARY <2> NOT VERY NECESSARY <1> NOT AT ALL	6
	NE GESSARY	6_
-	28. IS THE DISCIPLINE YOU GET IN THE ARMY GCCD FOR YOU?	6
		5_
	<4> VERY GUOD <5> EXTREMELY GCOD	6
	-33 HOW OFTEN IN THE ARMY ARE A LCT OF MEN MADE TO	6
	SUFFER BECAUSE ONE OR THO MEN FOUL UP ?	6
<u> </u>		<u> </u>
	<2> QUIT OFTEN <1> VERY OFTEN	6
	55 ARE YOU LIKELY TO GET IN TROUBLE IF YOU TRY TO	6
	THINK FOR YOURSELF IN THE ARMY ?	6
	- C5> NJT AT ALL LIKELY CA> NCT VERY LIKELY C3>	
	SOMEWHAT LIKELY <2> PRETTY LIKELY <1> VERY LIKELY	6
•		
<del> </del>	-57-AKE-MEN-IN-THE-ARMY-TREATED-WITH-PROPER RESPECT	•
•	REGARDLESS OF THEIR RANK CR JOB ?	6
<del></del>		
	<4> USUALLY <5> ALMOST ALWAYS	6
	* PERSONAL-ADJUSTMENT *	7_
	4. ARE YOU EVER WURRIED AND UPSET ?	7
<del></del>		7
	WORRIED AND UPSET <3> IAM SCMETIMES WORRIED AND UPSET	7
·	<2>-IAI4-OFTEN-WORRIEC AND UPSET <1>-IAN USUALLY	7_
	WURRIED AND UPSET	7
	9 HOW DO YOU FEEL ABOUT LIFE IN THE ARMY ?	7_
•	<5> VERY SATISFIED <4> FAIRLY SATISFIED <3> SCHEWHAT	7
		<del>,</del>
	DISSATISFIED	7
	-17. HOW-OU-FEEL MOST OF THE TIME IN GCCO SPIRITS OR	7
	IN LOW SPIRITS ?	<i>₹</i>
		<del></del> {
	SPIRITS <3> MY FEELINGS CHANGE BACK AND FORTH <4>	7
	IAH-OFT-ENIN-GOOD-SPIRITS<5>-IAH-USUALLY-IN-GCCD	7_
	SP IR ITS	7
	-19. HAVE YOU GUTTEN OVER YOUR FEARS ABOUT ARMY IN THE	7_
	AKMY ?	7
		-
		—7—

PAGE 6	MENT. IN EACH CHART, THE ATTITUDE INDEX IS SCALED ON	
	**************************************	
STATISTICS CGMMENT	ALL 	
<del>EPT-ICNS</del>	PRSAC(-7.71,7.71) WITH WEEK (1,101)	
	MTAOR(-7.71,7.71) WITH WEEK (1,101)/ -DSGGN <del>(-7.71,7.71) WI</del> TH WEEK (1,101)/	
· · · · · · · · · · · · · · · · · · ·	-TRNG(-7-7-7-1-7-1-) WI-TH-HEEK(-1-101-)/	
	-GFF(-7.7.7.7.7.) WITH WEEK(1,1C1)/	-
•	ARHY(-7.71, 7.71) WITH WEEK(1,101)/	
S <del>GATTERGRAH</del>	TOTAL-(-7.71,7.71)- HITH WEEK(1.1G1)/	
LIST GASES	-GASES	<del></del>
PRINT FORMATS	TOTAL, ARMY, OFF, NCO, TRNG, MTMOR, DSCCN, PRSAD (2)	
·	<5> VERY MUCH <4> QUITE A BIT <3> SCMEWHAT <2> NCT —— VERY MUCH <1> HURTS NCT HELPS —— VERY MUCH <1 HURTS NCT HELPS —— VERY MUCH <10 HURTS NCT HELPS NCT	
<del></del>	HELP YOU ?	
	60. HOW MUCH DUES THE COUNSELING YOU GET FROM YOUR ACOS	
	SATISFIED <2> NOT VERY SATISFIED <1> VERY	ಕಿ ೩_
	<5>-EXTREMELY-SATISFIED <4>- VERY-SATISFIED <3>- FAIRLY-	8-
	JOB IN THE ARMY ?	8
	<4> NOT UFTEN <5> HARDLY EVER -4000-YOU-THINK-YOU-WILL-BE-SATISFIED-WITH-YOUR-FUTURE	8 R_
		<del></del> 8_
	MISTAKES ?	8
	- 24 CO YOUR NOOS AGT ANGRY AND MEAN WHEN MEN MAKE	ი —-ყ-
		8 8
	<5> ALL I DESERVE AND MGRE <4> JUST WHAT I DESERVE	8
	- INPROVEMENT IN TRAINING SC FAR ?	ყ-
	* MISCELLANEOUS *  3. HAVE YOU GOTTEN THE PRAISE YOU DESERVE FOR YOUR	—്- 3
	MUCH '	7
	NOT-SO-814D-<4>-I-LIKE-ALL-RIGHT-<5>-I-LIKE-IT-VERY	<del>-</del>
	-58- IN GENERAL HUM DO YOU LIKE THE ARMY ?  <1> I DISLIKE IT A LOT <2> I DISLIKE IT SCME <3> ITS	—- <i>(</i> 7
	<4> NOT VERY MUCH <5> NOT AT ALL:	7 <del></del> 7
		7_
	HARDER AND HARDER FOR YOU ?	7
·	CONCERN <4> MUCH CONCERN <5> VERY GREAT CONCERN -49-DU-YOU-FEEL-THAT-LIFE-IN-THE-ARMY-HAS-BEEN-GETTING	7 7_
		<u>7</u>
	OF THE INDIVIDUAL SCLDIER ?	7
	-43- How MUCH CONCERN DOES THE ARRY HAVE FOR PROBLERS	
		7 7
	COULC GET A GUOD JOB <3> IAM NOT SURE WHAT I	7
	<^><	7
	KUULD YUU TAKE IT ?	

Beth was made

	SCALED ON THE HURIZONTAL AXIS. EACH POINT REPRESENTS
<del></del>	THE—AV CRAUL—ATTITUDE—CF—APPROXIMATELY—40 TRAINEES—SAMPLED
	AT RANDOM FROM ONE COMPANY
	THE THO HURIZONTAL DASHED LINES ACRESS THE MICCLE
	OF EACH CHART ARE THE 99 PERCENT CONTROL LIMITS FOR
	THE ATTITUDE INDEX. FOR EVERY 1CO PCINTS PLOTTED, 99 OF THEM ARE EXPECTED TO FALL BETWEEN THE CONTROL LIMITS,
	AND-ONLY-ABOUT 1 PUINT SHOULD FALL ABOVE OR BELOW THE
	CONTROL LIMITS.
	AN INJEVIOUAL POINT CUTSIDE THE CONTROL LINETS
	INDICATES AN UNUSUALLY LCW CR HIGH LEVEL CF ATTITUCE
	IN THAT PARTICULAR COMPANY. A CLUSTER OF POINTS CUTSIDE
	THE LIMITS DURING ONE PERIOD OF TIME INDICATES THAT
<del></del>	SOME UNUSUAL INFLUENCE COCURED IN THAT PERIOD CLUSTERS
	OF HIGH CK LOW PUINTS WHICH CCCUR PERIODICALLY SUGGEST
	THE OPERATION OF SUME SEASONAL CROTHER RECURRENT
	INFLUENCE. MANY CAUSAL FACTORS MAY CONTRIBUTE TO HIGH
	CR LOW PUINTS AND IT IS ADVISABLE TO BE CAUTIOUS IN
•	PLACING AN INTERPRETATION ON SUCH POINTS.
	THE STATISICS PRINTED WITH EACH CHART HELP TO
•	DETERMINE WHETHER UR NOT A SYSTEMATIC CHANGE IN ATTITUDE
	-IS-TAKING PLACE, DESCRIBABLE BY A LINEAR TREND ACROSS
•	WEEKS. IF THE PROBABILITY VALUE LISTED AFTER THE WORD
<del></del>	SIGNIFICANCE IS LESS THAN C.O. THERE IS ACECUATE
•	STATISTICAL EVIDENCE FOR THE CCCURANCE OF A LINEAR TRENC.  THE VALUES GIVEN FOR THE SLOPE AND INTERCEPT MAY BE
	USED TO PLUT THE TREND LINE ON THE CHART.
FINISH	
	,
FNC OF DATA	
PAGE 7	
PAGE 7	

# 4. AUDIT PROGRAM

(This program is specific to the DPFO computer at Leavenworth. It must be revised, or may not even be necessary on other systems.)

TVT01, T0177, CM1010	NO SPUU		
TASK, TA = , TA =	,115=	,TR=	,PI=0K.
		, , , ,	
HEADING, TRAMS	<mark>•</mark> <b></b>		<del></del>
	•		
MEADING, AUDIT	<del></del>		
ATTACH, TRAW, ID=	•		
ATTACH, TRAZ, ID=		<del></del>	
ATTACH, TRAG, ID=	•		
PURGE, TRAW, IC=	_•		
PURGE, TRAZ, RE=1.			
PURGE, TRAG. IC=	•		
AUDIT, ID= .			
W			
N V			· · · · · · · · · · · · · · · · · · ·
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			•
	T-1		·.
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			<del></del>
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			,
			•
<del></del>		<del></del>	
		•	A-16

#### APPENDIX B

#### ADAPTATION TO TRAINING DATA

Consider the hypothetical case in which TRAMS is adapted to provide control statistics on training data. Say, for example, that data are collected on training ten tasks and further that the scores are continuous (not GO/NO-GO). Each trainee's scores on each of the ten tasks as well as descriptive data are punched onto cards in some format compatible with the maximum scores on each task. For example, if scores on the first three tasks can range from 0 to 100 (three digits), and scores on the next seven tasks can range from 0 to 10 (two digits), each individual's score on the first three tasks will be punched (right justified) in each three successive columns, and scores on the next seven tasks will be punched in subsequent two-column fields. To aid data punching, the user should carefully lay out a card format sheet as has been done for the attitude data in Appendix E of this report.

If data for a given individual is missing or otherwise unavilable, a missing data code should be punched in the columns for that task. The code selected for missing data should be one that cannot occur in the data. Choice of a missing data code for training data depends on whether or not zero is a legitimate score. If zero cannot occur, as in the attitude scale in this report, it is an ideal indicator for missing data. However, if zero is a possible score, another missing data code such as a string of "9"s must be used. Given the hypothetical training scores above, one

might select missing data codes of 999 for the first three tasks and 99 for the next seven tasks.

A number of changes would need to be made to the Summary program in order to analyze the hypothetical training data. First, the VARIABLE LIST card must be changed. The VARIABLE LIST card simply contains the variable names (limited to eight alphanumeric characters) for every variable (score, identifying number, etc.) read off of the data deck. Suppose that the Battalion, Company, and Platoon data were irrelevent (i.e., for some reason the training manager was going to combine all data to determine trends within the entire training installation), and only one sample was going to be taken on each individual, such as a final qualifying score. In this situation the VARTABLE LIST card might read:

VARIABLE LIST \_\_ ITEM 1 TO ITEM 10, DAY, MO, YR, SAMP, TYPE1

allowing for scores on ten tasks and data on the day, month and year the sample was taken, the sample number, and the type of people being surveyed (OSUT, AIT, etc.). Second, the N OF CASES card would have to be changed to reflect the number of individuals sampled to that time. Third, the INPUT FORMAT card would have to be changed to reflect the format in which

The symbol "\_" indicates a blank on the SPSS card, and should not actually be punched on the card.

the data cards were punched. SPSS uses a standard FORTRAN format, so that for the hypothetical case above, the card might read:

INPUT FORMAT FIXED (3F3.0,10F2.0,F3.0,F1.0).

Where the first three variables (Items 1-3) are in three columns each, the next ten variables (Items 4-10, Day, Month, and Year) are in two columns each, the next variable (Sample) takes up three columns, and the last variable (Type) is coded in one column.

The VAR LABELS cards simply contain the full words or phrases that were abbreviated in the VARIABLE LIST card, and should be changed or deleted as needed. The VALUE LABELS cards serve to identify the numbers used to code different levels of variables, and should be changed as needed.

Since data from some tasks may be missing, with 999 or 99 punched to indicate missing data in the 10 tasks, MISSING VALUES cards are necessary. A missing value must also be specified for the other information on each card such as date of sample, etc. The cards might read:

MISSING VALUES \_ ITEM 1 TO ITEM 3 (999)/

ITEM 4 TO ITEM 10 (99)/

DAY TO TYPE (0)

allowing zero to serve as a missing score on the last five variables.

The program then goes through a procedure of counting missing scores and either (a) discarding the data for any individual for whom scores are missing on a large proportion of items or (b) setting an arbitrary response on all no-response items if only a small proportion of items have missing data. Setting the criterion for proportion of scores needed from each person to include them in the analysis deserves some attention. If practical, one should collect some data and determine statistically how many missing scores constitute an abnormally high proportion of missing data for each individual. With the coding for no response in our hypothetical training data and a criterion of needing scores on 70% of all tasks to include an individual in the analysis, the eight cards following the MISSING VALUES card would read:

COUNT	NORESP = ITEM 1 TO ITEM 3 (999
COUNT	NORESP = ITEM 4 TO ITEM 10 (99
DO REPEAT	ITEMX = ITEM 1 TO ITEM 3
IF	(NORESP GT 3) ITEMX = 999
END REPEAT	
DO REPRAT	ITEMX - ITEM 4 TO ITEM 10
IF	(NORESP GT 3) ITEMX = 99
END REPEAT	

The user may wish to set all non-responses to some arbitrary value such as 50 on the first three items and 5 on the next seven items, analagous to

the procedure in the attitude monitoring program. This procedure would require some modification of the above cards, and will not be discussed further.

Next, the TRAMS procedure combines items to provide scores on several scales within the attitude questionnaire. If the user wishes to combine the scores from several tasks, and create one or more variables (such as a total score), the combination can be done at this point. For example, the user may wish to look at the total of the first three tasks, the total of the last seven tasks, and the overall total:

COMPUTE	 VAR13 - ITEM 1+ITEM 2+ITEM 3
Compute	 VAR410 = ITEM 4+ITEM 5+ITEM 6+ITEM 7+ITEM 8+ ITEM 9+ITEM 10
COMPUTE	TOTAL = VAR13 + VAR410

Weighted sums or various combinations of scores are easily obtained.

However, weighting and performing any combination of variables must receive careful thought and have a reasonable a priori rationale. Finally, expanded variable labels can be assigned to the variables created with the COMPUTE cards, as is done in the attitude monitoring program.

The Aggregate program takes input from a file of Z scores (TRAZ) established by the Summary program. The format in which the Z scores were written is printed at the bottom of the Summary program output and discussed

in the SPSS manual, and can readily be inserted into the INPUT FORMAT statement of the Aggregate program. These variables must be given names in the ADD VARIABLES statement that are distinct from preceding names.

In most cases, the only other change the user may want to make in the Aggregate program would be on the first AGGREGATE procedure card if the user wishes to group scores over some level other than company. For example, if the user desires data on individual platoons within a company over time, the first AGGREGATE procedure card would read:

AGGREGATE		<b>GROUPVARS</b>	-	CO.	PLT.	BN.	WEEK

A description of the AGGREGATE card can be found on page 205 of the SPSS manual.

The user must change the Charts program so the variables listed and used are consistent with those used in the Aggregate programs. The format of the variables stored on disk for input into the Charts program are indicated near the end of the printout of the Aggregate program.

#### APPENDIX C

LISTING OF PROGRAM TO ASSESS ATTITUDE CHANGE OVER INDIVIDUALS

This program can easily be interfaced with the Aggregate and Charts programs of TRAMS by simply assuring that the file names, both in the programs and on the control cards, are consistent. Using this program requires that the data cards for each subject be placed together in the data deck, with the first sample coming first. If each person's data cards do not come together, the results will be invalid. If an error does occur in placing both cards from each person together, the data listing in the Summary program will report the identification number of any second card not matching the card containing data from the first sample. For example, if the second data cards for individuals 0001 and 0002 were accidentally switched, the data listing would appear as follows:

CASE 01 SUBFILE XXXX REPORT. = 0002

01 0001. X X XX XX

CASE 02 SUBFILE XXXX REPORT. = 0001

02 0002. X X XX XX

The number following the report is the actual identification number of the second data card. This is followed on the next line by the number that should have occurred. If such errors in ordering the data cards occur, the program will stop after reporting all errors and no files will be output.

This program makes use of several features of versions 6.5 and 7.0 of SPSS that are not discussed in the 1975 SPSS manual. These are:

- (a) LAG (see SPSS Version 6.5 Update, p. 6). "The LAG function replaces the value of a variable with the value of the previous case."

  In this program the lag function is used to compare card numbers across successive cards from a given subject."
- (b) REPORT (see SPSS Version 7.0 Update, p. 13). The REPORT variable is used as a data-checking procedure that prints data meeting certain conditions; in this program the condition for reporting is a failure of cards supposed to be from a single subject to match with respect to identification numbers.
- (c) STOP (see SPSS Version 7.0, p. 13 also). The STOP variable is also used for data-checking, but unlike the REPORT variable, the STOP variable stops the processing upon encountering a specified condition, rather than simply reporting a variable upon encountering a specified condition and then continuing with the program. In this program, the STOP variable is used to check for a flag set upon finding any failures to match identification numbers for data cards supposed to be from a single person.

-TVT01, T1000, CH1	
TASK,TN= ,7 HEADING,KOTTAS	TA - , DS - TR PI=KOTTAS.
HEADING, TRAMS	
HEADING, SUMMARY	/ <del>-</del>
ATTACH, SPSS, ID:	
REQUEST, CRAZ-PI	
REQUEST, CRAH, OF	
SPSS . A = CRAZ + S= (	
CATALOG, CRAZ, I	
CATALOG , CRANTI	) <b>-</b>
W	•
	-PROGRAN-T-O-AS-SE-SS-ATT-IT-UDE-CHANGE-OVER-TRAINING
COMMENT	CARDS MUST BE ARRANGED SO ALL CARDS FROM ONE INDIVIDUAL
· · · · · · · · · · · · · · · · · · ·	-are-together-with-the-card-from-the-first-sample-coming
	FIRST.
FILE-NAME	
COMMENT	RUN NUMBER N. DATE GO HERE
_	-CHANGE-RUN-NUMBER-AND-DATE-FOR-EACH-RUN
NUMBERED	YES
	-CONDE-SCRI-PT-IVE-ST-AT-S
	IT101 TO IT160, DAY1, MO1, YR1, SAMP1, MAN1
	-I T20 <del>1 -T0 -IT26</del> 0 <del>-DAY2 -H02 -YR2 -S</del> AM <del>P2 -HAN2 '</del>
INPUT MEDIUM .	CARD
N-OF-CASES	• =
COMMENT .	N OF CASES CARD MUST BE CHANGED FOR EACH RUN
COMMENT	-N-MUST-EQUAL-THE-NUMBER-OF-INDIVIDUALS-IN-THE-SAMPLE,
THOLLY SOONAT	HHICH SHOULD BE THE NUMBER OF DATA CARDS DIVIDED BY TWOFIXED-(60-F1.0,4X-3-F2.0-3X-F3.0-F4-0/
THE CHAPTER THE	60F1.0.4X.3F2.0.3X.F3.0.F4.0)
VAR-LABELS	DAY1
THIN CHUCES	DAY2 DAY SECOND SAMPLE/
,	MO1 MONTH FIRST SAMPLE/
	MO2 NONTH SECOND SAMPLE/
·	YRI YEAR FIRST SAMPLE/
•	YRZ YEAR SECOND SAMPLE/
·	SAMPI FIRST SAMPLE ID NUMBER/
•	SAMP2 SECOND SAMPLE ID NUMBER/
<del></del>	-MAN1IND-IV-IDUALID-NO-ON-FIR-ST-DATA-CARD/
•	MAN2 INDIVIDUAL ID NO ON SECOND DATA CARD/
COMPUTE	-X ORD ER = 0
CUMPUTE	XORDER=LAG(XORDER)
· [ F	-( MAN2-NE-MAN1-)REPORT*MAN1
IF	(MAN2 NE MAN1) REPORT.=MAN2
RECODE	-I.T101TDIT-160+SAMP1+MAN1+IT201TDIT-260+SAMP2+MAN2
	(BLANK=0)
	-IT101TOIT-160;\$AMP-1;MAN1 <del>;IT201-TO-IT260;\$AMP2;MAN2(0)</del>
COUNT COUNT	NDRSP1=IT101 TD IT160 (0)
DO REPEAT	-NORSP2 <del>-17-20-1-70-1-7260</del>
IF	INDRSPL GT & OR NORSP2 GT &1 ITIX=0
IF ·	(NORSP1 LE 6 AND ITIX EQ 0) ITIX=3
END_ REPEAT:	
DU REPEAT	172X=17201 TO 17260
<u> </u>	(NORSPI GT 6 OR NORSP2 GT 6) IT2X=0
15 .	(NDRSP2 LE 6 AND IT2X EQ 0) 172X=3 -
ENO REPEAT	, manuficial and or with a fine and or

DO REPEAT	TTEMX = IT101 TO IT104, IT109 TO IT111 JT118 TO IT121.
- DO WEEGVE	IT114, IT1 25, IT127, IT1 29, IT131, IT133 TO IT135, IT137,
•	17138, 17140, 17142, 17148, 17144 TO 17146, 17150, 17152,
, · · · · · · · · · · · · · · · · · · ·	IT155, IT156, IT160, IT201 TO IT204, IT209 TO IT211, IT218 TO
l	17221, IT214, IT225, IT227, IT229, IT231, IT233 JO IT235,
!	17255,17256,17260.
RECIDE	ITEMX (1=5) (2=4) (4=2) (5=1)
END REPEAT	
CUMPUTE	ARMY1 = IT101 + IT106 + IT122 + IT126 + IT144 + IT147 + IT148 + IT152 .
COMPUTE	ARMY2 = 17201 +17206 +17222+17226 +17244+17247+17248+17252
COMPUTE	OFF1=1T102+1T107+1T111+1T129+1T134+1T136+1T139+1T150
COMPUTE	OFF2 = 1T20 2+ IT207+ 1T21 1+ IT229+ IT234+ IT236+ IT239+ IT250
COMPUTE	NCO1 = IT114+ IT118+ IT123+ IT125+ IT130+ IT138+ IT146+ IT153
COMPUTE	NCO2 = 1T214+ IT218+ IT223+ IT225+ IT230+1T238+ IT246+ IT253
COMPUTE	TRNG1 = IT1 12 + IT1 21 + IT1 31 + IT1 32 + IT1 37 + IT1 42 + IT1 51 + IT1 54
COMPUTE	TRNG2=17212+17221+17231+17232+17237+17242+17251+17254
COMPUTE	HTMOR1=1T108+1T110+IT115+IT135+IT141+IT145+IT156+IT159
_COMPUTE	MTMOR 2=1T 208+1T210+1T215+1T235+1T241+1T245+1T256+1J259
COMPUTE	DSCON1=1T105+1T113+1T116+1T120+1T128+1T133+1T155+1T157
CUMPUTE	DSCON 2=17 20 5+ 17 21 3+ 17 21 6+ 17 22 0+ 17 22 8+ 17 23 3+ 17 25 5+ 17 25 7
COMPUTE	PRSAD1=IT104+IT109+IT117+IT119+IT127+IT143+IT149+IT158
COMPUTE	PRSAD 2= IT 20 4+ IT 20 9+ IT 21 7+ IT 21 9+ IT 22 7+ IT 24 3+ IT 24 9+ IT 25 8 ·
COMPUTE	MISC1 = IT1 03 + IT1 24 + IT1 40 + IT1 60
COMPUTE	MISC2=IT203+IT224+IT240+IT260
COMPUTE	TOTAL 1 = AR MY 1+OFF1+NCO1+TRNG1+MTMDR1+DSCON1+PR SAD1+MISC1
COMPUTE	TOTAL 2=ARMY 2+OFF2+NCO2+TRNG2+MTMOR2+DSCON2+PRSAD2+MISC2
COMPUTE	ARMYC = ARMY2 - ARMY1
COMPUTE	OFFC=DFF2-OFF1
COMPUTE	NCDC=NCD2-NCD1
COMPUTE	TRNGC=TRNG2-TRNG1
COMPUTE	MTMDRC=MTMDR2-MTMDR1
COMPUTE	DSCONC=DSCON2-DSCON1
COMPUTE	PRSADC=PRSAD2—PRSAD1
COMPUTE	MISCC=MISC2-MISC1
COMPUTE IF	TOTALC=TOTAL2-TOTAL1 ( MO1 EQ 1) WEEK1=RND((DAY1)/7)+52=(YR1-77)
1F	( MO2 EQ 1) WEEK2=RND((DAY2)/7)+52*(YR2-77)
IF	( MO1 EQ 2) WEEK1 =RND ((DAY1+31)/7)+52*(YR1-77)
İF	( MO2 EQ 2) WEEK2=RND ((DAY2+31)/7)+52+(YR2-77)
İF	( MO1 EQ 3) WEEK1 = RND ((DAY1+59)/7)+52 = (YR1-77)
1 F	( MO2 EQ 3) WEEK2=RND((DAY2+59)/7)+52+(YR2-77)
İF	( MO1 EQ 4) WEEK1=RND((DAY1+90)/7)+52+(YR1-77)
IF	( MO2 EQ 4) WEEK2=RND((DAY2+90)/7)+52+(YR2-77)
IF	( MO1 EQ 5) WEEK1 = RND ((DAY1+120)/7)+52*(YR1-77)
i i f	( MO2 EQ 5) WEEK2 = RND ((DAY2+120)/7)+52+(YR2-77)
IF	( MD1 EQ 6) WEEK1 =RND ((DAY1+151)/7)+52*(YR1-77)
16	( MO2 EQ 6) WEEK2=RND ((DAY2+151)/7)+52*(YR2-77)
IF	( MO1 EQ 7) WEEK1 = RND ((DAY1+181)/7)+52*(YR1-77)
, IF	( MO2 EQ 7) WEEK2=RND((DAY2+181)/7)+52+(YR2-77)
IF	( MD1 EQ 8) WEEK1 = RND ((DAY1+212)/7)+52*(YR1-77)
IF	( MO2 EQ 8) WEEK2=RND((DAY2+212-)/7)+52+(YR2-77)
IF	( MO1 EQ 9) WEEK1 = RND ((DAY1+243)/7)+52+(YR1-77)
14	( MO2 EQ 9) WEEK2=RND((DAY2+243)/7)+52+(YR2-77)
1 <u>F</u>	( MO) EQ 10) WEEK1=RND((DAY)+273)/7)+52+(YR1-77)
IF	( MO2 EQ 10) WEEK2=RND((DAY2+273)/7)+52+(YR2-77)
<u> </u>	( MO1 EQ 11) WEEK1=RND((DAY1+304)/7)+52+(YR1-77)

C-4

.

F	_(_ MOZ_EQ_11 )_WE	EK2=RND((DAY2+3D4)/7)+520(Y82-77)	
F	( MU1 EQ 12) WE	EK1=RND((DAY1+335)/7)+52*(YR1-77)	
F		EK2=RND((DAY2+335)/7)+52*(YR2-77)	
AR LABELS		E IN ATTITUDES TOWARD ARMY/	
		E_IN_ATTITUDES_TOWARD_OFFICERS/	
	NCDC CHANGE	E IN ATTITUDES TOWARD NCOS/	
	TRNGC CHAI	NOE IN ATTITUDES TOWARD TRAINING!	
	HTHORC CHANGE	E IN MOTIVATION AND MORALE/	
		E_IN_DISCIPLINE_AND_CONTROL/	
•	-	E IN PERSONAL ADJUSTMENT/	
		E_IN_MISCELLANEQUS_AREAS	
		E IN TOTAL ATTITUDE	
IST_CASES	_CASES <u>=100000/V/</u>	ARIABLES=NORSP1.NORSP2.WEEK1.WEEK2.	
	MAN1		
ONMENT	_*USE_LISTING_TO.	CHECK ORDERING OF CARDS IN DECK ACCO	נמא
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INISH	CRAN		
AVE FILE	CRAN		
INISH	CRAN		

.: **,** 

#### APPENDIX D

- In general, how well do you think the Army is run?
  - a. Extremely well
  - b. Very well
  - c. Pretty well
  - d. Not very well
  - e. Very poorly
- 2. How well do your officers understand the needs and problems of their men?
  - a. Extremely well
  - b. Very well
  - c. Pretty well
  - d. Not very well
  - e. Very poorly
- 3. Have you gotten the praise you deserve for your improvement in training so far?
  - a. All I deserve and more
  - b. Just what I deserve
  - c. Not quite what I deserve
  - d. Less than I deserve
  - e. Much less than I deserve
- 4. Are you ever worried and upset?
  - a. I am never worried and upset
  - b. I am hardly ever worried and upset
  - c. I am sometimes worried and upset
  - d. I am often worried and upset
  - e. I am usually worried and upset

- 5. Do you think there is too much unnecessary harassment in the Army?
  - a. Much too much
  - b. Somewhat too much
  - c. A little too much
  - d. Not too much
  - e. Hardly any
- 6. To what extent are promotions in the Army based on ability?
  - a. Only slightly
  - b. Somewhat
  - c. Ouite a bit
  - d. A great deal
  - e. Almost entirely
- 7. How much respect do you have for your officers?
  - a. Hardly any
  - b. A little bit
  - c. Some
  - d. A fair amount
  - e. A great deal
- 8. How many men in your unit want to do a good job in training?
  - a. Few of them
  - b. Some of them
  - c. Many of them
  - d. Most of them
  - e. Almost all of them
- 9. How do you feel about life in the Army?
  - a. Very satisfied
  - b. Fairly satisfied
  - c. Somewhat satisfied
  - d. Not very satisfied
  - e. Very dissatisfied

- 10. Do you feel that what you are doing in the Army is worthwhile?
  - a. It is extremely worthwhile
  - b. It is very worthwhile
  - c. It is mostly worthwhile
  - d. It is somewhat worthwhile
  - e. It isn't very worthwhile
- 11. When your officers give you something to do, do they tell you enough about it so that you can do a good job?
  - a. Always enough
  - b. Usually enough
  - c. Sometimes enough
  - d. Often not enough
  - e. Almost never enough
- 12. How much of the training you have been getting is needed to make men good soldiers?
  - a. Much is not needed
  - b. About half is not needed
  - c. Some is not needed
  - d. Most is needed
  - e. Almost all is needed
- 13. How often do men in your unit get punished for something that isn't their fault?
  - a. Very often
  - b. Quite often
  - c. Sometimes
  - d. Not very often
  - e. Almost never

- 14. How well do your NCOs understand the needs and problems of their men?
  - a. Extremely well
  - b. Very well
  - c. Fairly well
  - d. Not too well
  - e. Very poorly
- 15. On the whole, how is the morale in your company?
  - a. Very low
  - b. Low
  - c. Just so-so
  - d. High
  - e. Very high
- 16. How is the military control and discipline in your unit?
  - a. Much too strict
  - b. A little too strict
  - c. About right
  - d. A little too loose
  - e. Much too loose
- 17. How do you feel most of the time, in good spirits or in low spirits?
  - a. I am usually in low spirits
  - b. I am often in low spirits
  - c. My feelings change back and forth
  - d. I am often in good spirits
  - e. I am usually in good spirits
- 18. Can you trust your NCOs not to get things all fouled up?
  - a. Almost always
  - b. Most of the time
  - c. Much of the time
  - d. Only sometimes
  - e. Usually not

- 19. Have you gotten over your fears about life in the Army?
  - a. Almost all of them
  - b. Most of them
  - c. Many of them
  - d. Some of them
  - e. Few of them
- 20. Is tough discipline necessary to get men to do things the right way?
  - a. Very necessary
  - b. Pretty necessary
  - c. Somewhat necessary
  - d. Not very necessary
  - e. Not at all necessary
- 21. How tough is the physical training program?
  - a. Very easy
  - b. Fairly easy
  - c. Not very tough
  - d. Pretty tough
  - e. Much too tough
- 22. Does the Army do what is possible to put men in the jobs for which they are most suited?
  - a. Hardly anything is done
  - b. Not much is done
  - c. Some things are done
  - d. Most things are done
  - e. Everything possible is done
- 23. How much respect do you have for your NCOs?
  - a. Hardly any
  - b. A little bit
  - c. Some
  - d. A fair amount
  - e. A great deal

- 24. Do your NCOs act angry and mean when men make mistakes?
  - a. Almost always
  - b. Most of the time
  - c. Sometimes
  - d. Not often
  - e. Hardly ever
- 25. When your NCOs give you something to do, do they tell you enough about it so that you can do a good job?
  - a. Almost always enough
  - b. Usually enough
  - c. Sometimes enough
  - d. Often not enough
  - e. Almost never enough
- 26. How good is the equipment in the Army?
  - a. Very poor
  - b. Not very good
  - c. Pretty good
  - d. Very good
  - e. Excellent
- 27. If you were offered an honorable discharge today, would you take it?
  - a. I'm sure I would not
  - Yes, but only if I could get a good job
    - . I'm not sure what I would do
  - d. Yes, if I could get any kind of a job
  - e. I'd take it no matter what
- 28. Is the discipline you get in the Army good for you?
  - a. Very bad
  - b. Not very good
  - c. Pretty good
  - d. Very good
  - e. Extremely good

- 29. Can you trust your officers not to get things all fouled up?
  - a. Almost always
  - b. Most of the time
  - c. Much of the time
  - d. Only sometimes
  - e. Usually not
- 30. How well do the NCOs in charge of 35. your work really know their stuff?
  - a. Not well at all
  - b. Not very well
  - c. Pretty well
  - d. Very well
  - e. Extremely well
- 31. How much more training do you think you need to be ready for combat?
  - a. Not much more
  - b. A little more
  - c. Some more
  - d. Much more
  - e. Very much more
- 32. During training and drill periods, do you have to spend too much time 37. How well do your training inwaiting around and doing nothing?
  - a. Almost always
  - b. Very often
  - c. Sometimes
  - Not very often
  - Almost never
- 33. How often in the Army are a lot of men made to suffer because one or two men foul up?
  - a. Almost never
  - b. Not very often
  - c. Sometimes
  - Quite often
  - e. Very often

- 34. Do your officers show favoritism to some men in your unit?
  - a. Almost never
  - b. Once in a while
  - c. Not usually
  - d. Sometimes
  - e. Quite often
- Has the morale in your company gotten better and better as time goes on?
  - a. Very much so
  - b. Pretty much
  - Only a little c.
  - d. Not very much
  - e. Not at all
- 36. How much are your officers interested in your welfare and personal problems?
  - Very uninterested
  - b. Not much interested
  - c. Somewhat interested
  - d. Very much interested
  - e. Extremely interested
  - structors know how to teach?
  - a. Extremely well
  - b. Very well
  - c. Pretty well
  - d. Not very well
  - e. Very poorly
- Do your NCOs show any favoritism 38. to some men in your unit?
  - a. Almost never
  - b. Once in a while
  - c. Not usually
  - d. Sometimes
  - e. Quite often

- 39. How well do the officers who are in charge of your unit really know their stuff?
  - a. Not well at all
  - b. Not very well
  - c. Pretty well
  - d. Very well
  - e. Extremely well
- 40. Do you think you will be satisfied with your future job in the Army?
  - a. Extremely satisfied
  - b. Very satisfied
  - c. Fairly satisfied
  - d. Not very satisfied
  - e. Very unsatisfied
- 41. Does it matter to you how well you do in the Army?
  - a. Very little
  - b. Not very much
  - c. Somewhat
  - d. Quite a bit
  - e. Very much
- 42. How good is the training you are getting?
  - a. Excellent
  - b. Very good
  - c. Pretty good
  - d. Not very good
  - e. Very poor
- 43. How much concern does the Army have for problems of the individual soldier?
  - a. Hardly any concern
  - b. Little concern
  - c. Some concern
  - d. Much concern
  - e. Very great concern

- 44. How have your military experiences changed your respect for the Army?
  - a. I have much more respect
  - b. I have somewhat more respect
  - c. I have no less respect
  - d. I have somewhat less respect
  - e. I have much less respect
- 45. How many men in your unit will make good soldiers?
  - a. Almost all of them
  - b. Most of them
  - c. Many of them
  - d. Some of them
  - e. Few of them
- 46. How important to you are your NCO's opinions of your performance as a soldier?
  - a. Extremely important
  - b. Very important
  - c. Somewhat important
  - d. Not very important
  - e. Very unimportant
- 47. How have your military experiences changed your interest in making a career of the Army?
  - a. I have much less interest
  - b. I have some less interest
  - c. I have no less interest
  - d. I have more interest
  - e. I have much more interest
- 48. What is your opinion of Army rules and regulations?
  - a. Almost all are necessary
  - b. Most are necessary
  - c. Many are necessary
  - d. Some are necessary
  - e. Only a few are necessary

- Do you feel that life in the Army 54. How satisfied are you with the has been getting harder and harder for you?
  - a. Very much so
  - b. Pretty much
  - c. Only a little
  - d. Not very much
  - e. Not at all
- 50. How important to you are your officer's opinions of your performance as a soldier?
  - a. Extremely important
  - b. Very important
  - c. Somewhat important
  - d. Not very important
  - e. Very unimportant
- Should combat training be made easier or harder than it is?
  - a. Much easier
  - b. Somewhat easier
  - c. Not any harder
  - d. A little harder
  - e. Much harder
- How have your military experiences affected your confidence in the Army's ability to defend our country?
  - a. I have much more confidence
  - b. I have more confidence
  - c. My confidence did not change
  - d. I have less confidence
  - e. I have much less confidence
- 53. How much are your NCOs interested in your welfare and personal problems?
  - Very uninterested
  - b. Not much interested
  - c. Somewhat interested
  - d. Very much interested
  - e. Extremely interested

- training you have been getting?
  - a. Very dissatisfied
  - b. Not very satisfied
  - c. Mostly satisfied
  - d. Very satisfied
  - e. Extremely satisfied
- 55. Are you likely to get in trouble if you try to think for yourself in the Army?
  - a. Not at all likely
  - b. Not very likely
  - c. Somewhat likely
  - d. Pretty likely
  - e. Very likely
- 56. Do you try to do your best?
  - a. Almost always
  - b. Most of the time
  - c. Much of the time
  - d. Sometimes
  - e. Not often
- 57. Are men in the Army treated with proper respect regardless of their rank or job?
  - a. Almost never
  - b. Not very often
  - c. Sometimes
  - d. Usually
  - e. Almost always
- In general, how do you like the 58. Army?
  - a. I dislike it a lot
  - b. I dislike it some
  - c. It's not so bad
  - d. I like it all right
  - e. I like it very much

- 59. Are you getting a chance to use your skill and experience?
  - a. Hardly any chance
  - b. Not much of a chance
  - c. A pretty good chance
  - d. A very good chance e. An excellent chance

- 60. How much does the counseling you get from your NCOs help you?
  - a. Very much
  - b. Quite a bit
  - c. Somewhat
  - d. Not very much
  - e. Hurts, not helps

#### APPENDIX E

#### ATTITUDE QUESTIONNAIRE INSTRUCTIONS

Administration of the attitude questionnairs (included in Appendix C of this report) first requires selection of trainees. The administrator should obtain a Company roster for each Company to be sampled, and randomly select 40 names. These 40 trainees should receive the attitude question-naire at some time and place that fits into the Company schedule.

The person administering the questionnaire should be prepared to pass out the questionnaire booklets, answer sheets, pencils, and if change in attitude over time is of interest, stickers with seven-digit identification numbers as mentioned in the attitude questionnaire instructions that follow. The purpose of the identification stickers is to provide a means by which a given individual's responses can be compared over two samples, but still maintain the individual's anonymity. No administrative record will be kept associating any of the seven-digit numbers with any individual; rather, each individual will be asked to record his/her number upon completing the attitude questionnaire at each administration. If only one sample will be taken from each individual, assigning identification numbers is unnecessary. If change in individual attitudes is a central issue, the following instructions should be read exactly. If the questionnaire will be given only once to each person, numbered stickers should not be handed out and only the first paragraph of the first page of instructions should be read before going on to the second page of the instructions. When

reading the second to the last paragraph of the second page of instructions, the first sentence should be changed to read:

"You have a guarantee of privacy; no one will know who filled out which answer sheet so you can be entirely honest in your answers, without having to worry about anyone holding your answers against you."

The person administering the questionnaire should then read the necessary instructions to those completing the questionnaire, and assure that all trainees place the stickers on their I.D. cards, if necessary. After completing this, the administrator should make certain that no one has any questions, and instruct the trainees to begin. The administrator should then allow the trainees sufficient time to complete the questionnaire (usually about 45 minutes). It is important not to rush the trainees, as their attitudes may be temporarily influenced by being unnecessarily hurried. After all trainees finish, the administrator should collect all answer sheets (checking to be sure that all trainees have recorded their special seven-digit I.D. number, if necessary), booklets, and pencils. If individuals are to complete the questionnaire again at a later date, the procedure for administering the questionnaire will be identical, except that new I.D. numbers will not be handed out, and the trainees should be instructed to remove the stickers with their special seven-digit number from their I.D. cards.

If the user determines that it is necessary to administer the questionneire more than twice, the stickers should not be removed from the trainees! I.D. cards until the last administration.

After all questionnaires are completed, the administrator should staple the answer sheets together with the card punching format information sheet (TRAMS Card Format sheet) provided in Appendix E. The administrator should be certain that the correct information is recorded in the blanks on the TRAMS Card Format sheet (Company, Platoon, Battalion, Day, Month, Year, POI, and Sample I.D.). The answer sheets with attached Card Format sheet should then be taken to the local MISO (Management Information Systems Office) for card punching. 2

The user should contact the local MISO to receive guidance on submitting this information, as well as on establishing the necessary computer account, project I.D., or any other data processing requirements.

### ATTITUDE QUESTIONNAIRE

### Instructions

This booklet contains questions asking how you feel about the Army and about life in the Army. Your answers to the questions will be used for research purposes only, and will not become part of any record or affect your position in the Army in any way.

You have gotten a numbered sticker along with your booklet and answer sheet. This sticker gives your special I.D. number, which will be used only for this research project. It should be a seven-digit number. Count the digits to make sure your number has seven digits. Then take out your Army I.D. card, remove the sticker from its backing, and fix the sticker on the back of your Army I.D. card, in the lower right-hand corner. If your number doesn't have seven digits, or if you can't read the number, or if you have trouble sticking it to your I.D. card, raise your hand now, and get a new sticker.

When you are finished putting the sticker on your I.D. card, write the seven-digit number completely and accurately in the seven spaces provided at the top of your answer sheet. Write one digit in each space.

When you are finished copying the number on the answer sheet, put your I.D. card away. For the purposes of this research project, it is very important that you keep your special I.D. number to use again after several weeks. Do not remove the sticker from your I.D. card for any reason until you are told to remove it.

The special I.D. number you have written on your answer sheet guarantees your complete privacy in answering the questions in this booklet. Nobody knows your particular number, and nobody will try to find out later on what your number is. Therefore, nobody can find out who used what answer sheet. Not even the researchers will have any way of connecting your answers to your name, so nobody can find out what your answers are. Do not show your special I.D. number to your officers, NCOs, other men in your unit, or anybody else. Everyone will cooperate with this requirement, and you will not be asked to show the number to anyone. You will only be asked to use the number again at a later time on a different answer sheet.

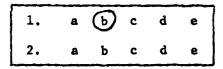
DO NOT TURN TO THE NEXT PAGE UNTIL TOLD TO DO SO

There are 60 questions, and each question has five possible answers. You will have 50 minutes to answer the questions. Read each question carefully, and decide which answer best describes your own feelings. Then circle the letter corresponding to that answer, and only that answer, on the answer sheet. Do not circle answers in the booklet or make any other marks in the booklet. Be sure that you have the correct item number on the answer sheet when you circle your answer.

For example, question number one might be:

- 1. How high are the standards of military courtesy in your unit?
  - a. Very high
  - b. Pretty high
  - c. Just so-so
  - d. Pretty low
  - e. Very low

If you think the standards are pretty high, but not very high, and not just so-so, you would circle b on the answer sheet for question 1.



If you have any questions, raise your hand now.

We have given you a special I.D. number and a guarantee of privacy so that you can be entirely honest in your answers, without having to worry about anyone holding your answers against you. We want to know how you really think and feel, not what somebody might want you to think or feel. It is important that you give the answer which best matches your own feelings on each question.

If you finish before the time is up, remain seated and quiet. The booklets and answer sheets will be turned in all at the same time after everyone is finished.

APPENDIX F
CARD FORMAT FOR ATTITUDE ANALYSIS

	Information	Card Columna	Values
1.	Responses to Items (1-60) (a=1, b=2, c=3, d=4, e=5)	(1) to (60)	(on sheets)
2.	Company (A=1, B=2, C=3, D=4, E=5)	(61)	
3.	Platoon (1-6)	(62)	
4.	Battalion (01-19)	(63 - 64)	
5.	Fill Date - Day (01-31)	(65 - 66)	-
6.	Fill Date - Month (01-12)	(67 - 68)	
7.	Fill Date - Year (77-99)	(69 - 70)	
8.	Blank	(71 - 72)	
9.	POI (1-5)	(73)	
	(1) 11EOSUT (4) 11EAIT (2) 11DOSUT (5) 11DAIT (3) BCT		
10.	Sample I.D. (001-999)	(74 - 76)	
11.	Individual I.D. (0001-9999)	(77 - 80)	(on sheets)

#### APPENDIX G

### QUESTIONNAIRE ADMINISTRATION PROCEDURE

#### I. FIRST ADMINISTRATION

- 1. Set up time and place to fit with Company schedule.
- 2. Obtain Company roster.
- 3. Select 40 trainees at random.
- 4. At administration, pass out booklets, answer sheets, pencils, numbered stickers.
  - 5. Read first page of instructions, get stickers on I.D. cards.
  - 6. Read second page of instructions, start.
- 7. Allow all the time needed (usually 45 min.). Don't let anybody rush you.
  - 8. Pick up answer sheets first; then booklets and pencils.
  - 9. Check answer sheets to see I.D.s done.

## II. SECOND ADMINISTRATION

(Same as first except stickers are removed.)

After returning to office, staple answer sheets with form sheet on top. Fill out Company info on form sheet. Stamp Company I.D. code on each answer sheet. Take to MISO for punching.

# APPENDIX H

MANDATORY USER UPDATES OF ATTITUDE MONITORING PROGRAMS

The "Summary" program requires the user to change:

(1)	The run number and date card. This should be retyped so that
	the word COMMENT remains in columns 1-7 and the statement RUN
	NUMBER N, DATE DAY, MONTH, YEAR begins in column 16. For
	example:
	COMMENT RUN NUMBER 7, DATE 3 APR 80
	Note that a "_" in the above card indicates a blank. This
	card is simply to help the user document the run. Errors will
	not be reported if the card is not changed, or changed
	incorrectly.
(2)	The N OF CASES card. The number beginning in column 16 should
	be the number of data cards to be analyzed. For example, if
	exactly 40 trainees complete the attitude questionnaire at each
	administration and the program is run after the first sample
	is taken, the card will read:
	N OF CASES 40.
	If the program is run after the second sample of 40 is taken,
	it will read:
•	N OF CASES 80.

If in doubt, count the number of data cards you have. If the number of cases on the N OF CASES card does not match the number of data cards, an error message will be printed and the job will terminate abnormally.

- (3) The \*SELECT IF card. In conjunction with the LIST CASES card following, the \*SELECT IF card causes the selected cases to be listed. The sample number on the card should be changed on each run if the user wishes a listing of only the most recent sample. For more information, see the section on Possible User Modifications.
- (4) The data deck. Every time a new sample is taken from a company and data cards are punched, they should be added to the data deck. Samples should be ordered from lowest to highest sample number, and the user may want to order the cards within each sample from the lowest to the highest man number for the sake of convenience. This ordering is desirable when the user wishes to delete the oldest samples from analysis (for example, those samples more than two years old). Although ordering of samples over time in the card deck is not imperative, data cards from different samples must not be intermixed!

  Intermixing samples is likely to produce problems in the "Aggregate" run, by producing aggregate groups of only one or

only a few individuals. The user may find it helpful to color the tops of data cards from different samples with differently colored felt-tip markers, and to label the first card in each sample with information about the Company, Platoon, Battalion, and Week.

The "Aggregate" program should require no change other than:

(a) The run number and date card, as in the "Summary" program. As with the Summary program, this card is intended to help the user document his run, but changing it is not critical to the accuracy of the processing.

The "Charts" program requires the user to change:

- (a) The run number and date card, as in the Summary program, also for documentation purposes.
- (b) The N OF CASES card. The number of cases will equal the number of Company samples taken. If there is any doubt about the number that should be punched on this card (beginning in column 16), the user may wish to refrain from running the

Charts program until after receiving the printout from the Aggregate program. The number of cases will be equal to the number of aggregate groups described in the Aggregate output. The number of cases specified on the N OF CASES card must match the number of aggregate groups. If the number of cases specified on the N OF CASES card is greater than the number of aggregate groups, an error message will be printed and the program will terminate abnormally. If the number of cases specified on the N OF CASES card is less than the number of aggregate groups, no error messages will be printed, but the output of the "Charts" program will be incorrect; the number of Company samples printed on each control chart will be the number specified on the N OF CASES card and some Company samples will therefore be deleted.

The "Audit" program should require no changes as it stands, provided that the user has arranged for permanent disk storage space within the computer account. The user may not wish to run the "Audit" program in the same batch flow as the other three programs, but may wish to be certain that the output of the "Charts" program is correct before freeing disk space by deleting files. This can be done simply by not submitting the "Audit" program

for processing until after the output of the "Charts" program has been examined, or by running the "Audit" program as the first program in the processing flow beginning with the second run.

#### APPENDIX I

#### POSSIBLE USER MODIFICATIONS OF ATTITUDE MONITORING PROGRAMS

In addition to changes the user must make on each run, there are some changes that the user may wish to make for the sake of convenience in certain situations. These changes and their influences are outlined below.

The user may wish to delete the \*SELECT IF and LIST CASES cards from the "Summary" program to reduce the output of the "Summary" program. There are several options open to the user with respect to these cards. First, the user may remove both cards which would result in no individual data being listed for that run. A second option is to include both cards, with the \*SELECT IF card set for selecting the most recent sample; this will result in data from only the last sample being printed. As a third alternative, the user may delete the \*SELECT IF card and retain the LIST CASES card. This will result in all the data from all samples submitted being printed for all individuals sampled. When the number of individuals sampled becomes large, this alternative becomes impractical. A fourth alternative is to simply remove both cards from the deck for most runs, and insert the LIST CASES card on an occasional run between the COMMENT cards referring to it. This will allow the user to examine the ordering of all data on a periodic basis. When the number of individuals sampled becomes large, this alternative also becomes impractical.

After the user has obtained a printout of all questions on the attitude questionnaire, he or she may not want to include them on any subsequent printout of the control charts. These questions can be removed from the output simply by removing all cards between and including the card reading "DOCUMENT \_\_\_\_\_\_ FT KNOX TRAINEE ATTITUDE SURVEY ITEMS" and the last card of question 60 reading "\_\_\_\_\_\_ VERY MUCH [1] HURTS NOT HELPS", which is the card preceding the PRINT FORMATS card.

The user may also not wish control charts on all eight scales within the attitude questionnaire. To delete one of the control charts, the user must remove its card from the SCATTERGRAM card set. For example, if the user does not wish a control chart to be printed on Discipline and Control, the DSCON(-7.71,7.71) WITH WEEK (60,161)/ card should be removed. If the user wishes to delete the control chart on Total Attitude, since it is specified on the first card, the SCATTERGRAM \_\_\_\_\_\_ TOTAL (-7.71,7.71) WITH WEEK (60,161)/ card must be removed, and the following card must be modified so it contains the word SCATTERGRAM in columns 1-11. If the user wishes to delete the control chart on Personal Adjustment, since it is the last card in the sequence, the PRSAD (-7.71,7.71) WITH WEEK (60,161) card must be removed, and the trailing / at the end of the preceding card must be removed.

Another change that the user may wish to make involves the way the fill week is calculated. The program in the appendix calculates the week

from an arbitrary starting date of 1 January 1977. The user may change the year of the starting date by changing the last two digits of the IF cards in the Summary program that control the calculation of the week. For example, if the user wishes to designate 1 January 1980 as the arbitrary starting date, the IF cards would read:

```
IF _____ (MO EQ 1) WEEK = RND((DAY)/7) +52*(YR-80)

IF ____ (MO EQ 2) WEEK = RND((DAY+31)/7) +52*(YR-80)

IF ____ (MO EQ 3) WEEK = RND((DAY+59)/7) +52*(YR-80)

. . . etc.
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